

BASIC DATA
RELATING TO THE
NATIONAL INSTITUTES OF HEALTH
1973 - 1974

GRANTS

[REDACTED]



[REDACTED]







**BASIC
DATA**

RELATING TO THE

**NATIONAL
INSTITUTES
OF HEALTH
1973**

PRINTED IN LIMITED QUANTITY FOR ADMINISTRATIVE USE

Prepared by the staffs of the
Associate Director for Program Planning & Evaluation
and the
Division of Research Grants

NATIONAL INSTITUTES OF HEALTH

February 1973

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FOREWORD

Basic Data Relating to the National Institutes of Health, first compiled in 1954, has been issued annually since 1961. Single copies of the current number are available from NIH information offices.

All data are derived from NIH records and studies unless noted. The Special Projects Branch, OLA-OD, plans, edits and publishes. It also prepares the tables on NIH appropriations and obligations. The Office of Resources Analysis, OD, develops the data on national support for biomedical R&D from annual surveys and other sources. The Reports and Data Evaluation Section, SAB-DRG, compiles the data on NIH awards and prepares the charts.

Reorganization of DHEW health programs in April 1968 added two major entities to NIH — the Bureau of Health Manpower (now the Bureau of Health Manpower Education) and the National Library of Medicine. These are included in all applicable award data for FY 1968 and thereafter. The National Institute of Mental Health, which was transferred out of NIH in January 1967, is excluded from all award data for FY 1967 and thereafter (except the NIMH portion of general research support programs, administered by DRR, NIH). See the chronology for other major organizational changes.

Scientific evaluation grants and the Gorgas Memorial Laboratory grant are excluded from all award data. Supplemental awards, unless otherwise noted, are combined with their parent awards when made from the same fiscal year funds, and are always excluded from numbers of fellowships. Research and education contracts include contracts for NLM technical development. In tables on appropriations and obligations, the Division of Research Resources, though located in BHME from 4/68 to 9/70, is always included with the I/RDs. BHME actual obligations reflect carryover and advance obligational authority.

Differences between "awards" and "obligations" are due to differences in accounting by the several data sources and to the reawarding of funds (construction) from unexpended balances. Dollars and percents may not add exactly to totals because of rounding.



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MEDICAL R & D AS A PROPORTION OF TOTAL HEALTH COST UNITED STATES, 1960-1972

TOTAL HEALTH COST

1972-\$ 83 BILLION

1960-\$ 26 BILLION

MEDICAL RESEARCH & DEVELOPMENT

\$ 845 MILLION-3% OF 1960 TOTAL HEALTH COST

\$ 3.3 BILLION-4% OF 1972 TOTAL
HEALTH COST

NATIONAL HEALTH COST, 1972
(IN BILLIONS)

TOTAL.....	\$ 83.4
HOSPITAL & NURSING-HOME CARE.....	36.0
PHYSICIANS', DENTISTS', AND OTHER PROFESSIONAL SERVICES	22.8
DRUGS, APPLIANCES & OTHER EXPENSES ..	18.5
CONSTRUCTION.....	4.1
RESEARCH	2.0

SOURCE FOR NATIONAL HEALTH COST: *SOCIAL SECURITY BULLETIN*, VOL. 36, NO. 1, JANUARY 1973.

FEDERAL HEALTH EXPENDITURES FISCAL YEARS 1968-1974 EST.

BILLIONS

\$ 30

25

20

15

10

5

0

TOTAL IN 1960 DOLLARS

1968

1969

1970

1971

1972

1973
EST.1974
EST.

\$ 14.1

\$ 16.6

\$ 18.1

\$ 20.2

\$ 24.5

\$ 26.5

\$ 30.3

HEALTH
CARER & D
EDUCATION

SOURCE: SPECIAL ANALYSIS, BUDGET OF THE U.S. GOVERNMENT, FY 1970-74, GPO 1969-73.

MEDICAL R & D AS A PROPORTION OF TOTAL R & D COST UNITED STATES, 1960-1972

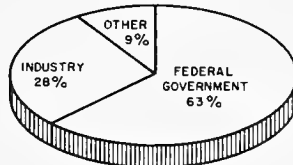
TOTAL R & D COST

1972-\$ 29.2 BILLION

1960-\$ 13.7 BILLION

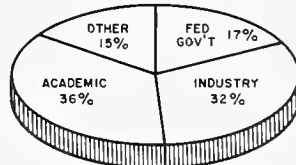
FUNDS OBLIGATED FOR MEDICAL R & D 1972

BY SOURCE



\$ 3.3 BILLION

BY PERFORMER



\$ 3.3 BILLION

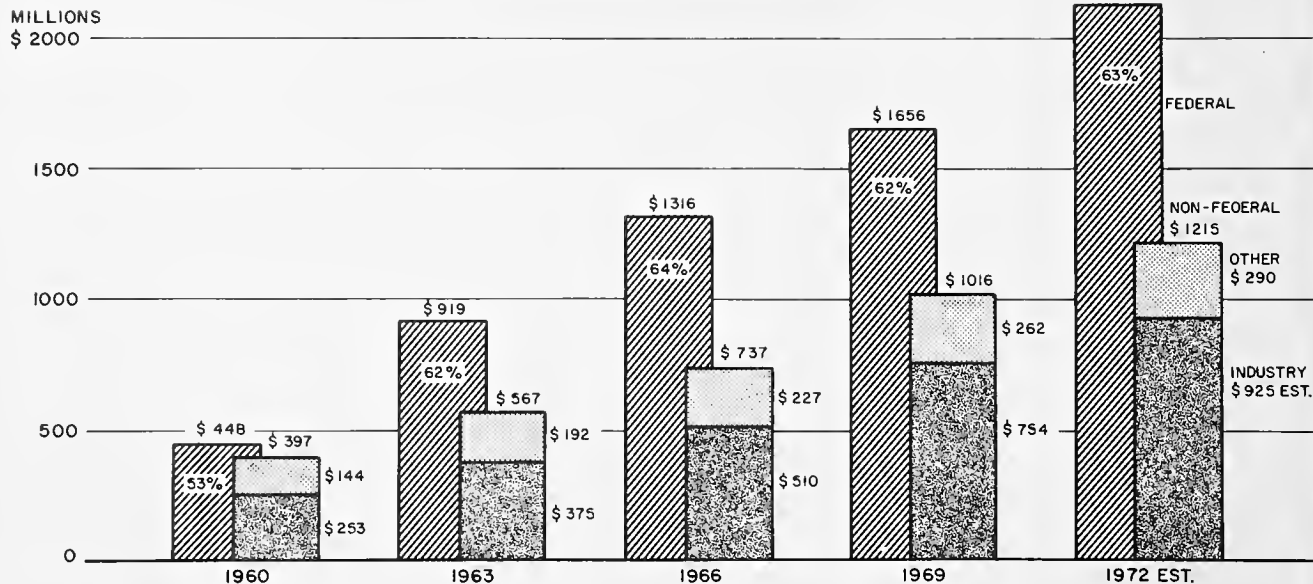
MEDICAL RESEARCH AND DEVELOPMENT

\$ 845 MILLION - 6% OF 1960 TOTAL R & D

\$ 3.3 BILLION - 11% OF 1972 TOTAL R & D

FUNDS FOR MEDICAL R & D BY SOURCE*

UNITED STATES, 1960-1972 EST.



* COVERS ONLY MEDICAL AND HEALTH-RELATED R & D - NO TRAINING OR CONSTRUCTION. NON-FEDERAL DATA SINCE 1964 ARE NOT STRICTLY COMPARABLE WITH THOSE FOR PRIOR YEARS, AS COVERAGE HAS BEEN IMPROVED.

NATIONAL SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, 1947-1972 Est. *
By Source and by Performer (in Millions of Dollars)

Sector	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Total of A or B	\$87	\$124	\$147	\$161	\$175	\$197	\$214	\$237	\$261	\$312	\$440	\$543	\$648
<i>A. BY SOURCE OF FUNDS</i>													
Government	27	50	65	74	85	103	108	123	144	169	239	292	368
Federal	27	50	65	74	85	103	107	119	139	162	229	279	351
State and local	NA	NA	NA	—	—	—	1	4	5	7	10	13	17
Industry	35	43	48	51	52	52	58	61	62	79	126	170	190
Private nonprofit	25	31	34	36	38	42	48	53	55	64	75	81	90
Foundations & health agencies	15	19	20	21	22	24	26	30	31	36	42	45	49
Other private contributors	NA	NA	NA	NA	NA	NA	NA	NA	1	3	5	6	10
Endowment	10	12	14	14	14	14	15	16	16	17	19	19	19
Institutions' own funds	NA	NA	NA	1	2	4	7	7	7	8	9	11	12
<i>B. BY PERFORMER OF R & D</i>													
Federal Government	17	23	30	35	40	49	51	53	64	74	90	104	121
Industry	36	46	52	55	57	58	65	67	69	86	136	187	209
Private nonprofit	34	55	65	71	78	90	98	117	128	152	214	252	318
Higher education	NA	NA	NA	51	58	67	75	86	95	110	150	176	219
Other	NA	NA	NA	20	20	23	23	31	33	42	64	76	99

*Covers medical and health-related R & D (projects, resources, and general support) but not training or construction. † Estimated.

(Continued)

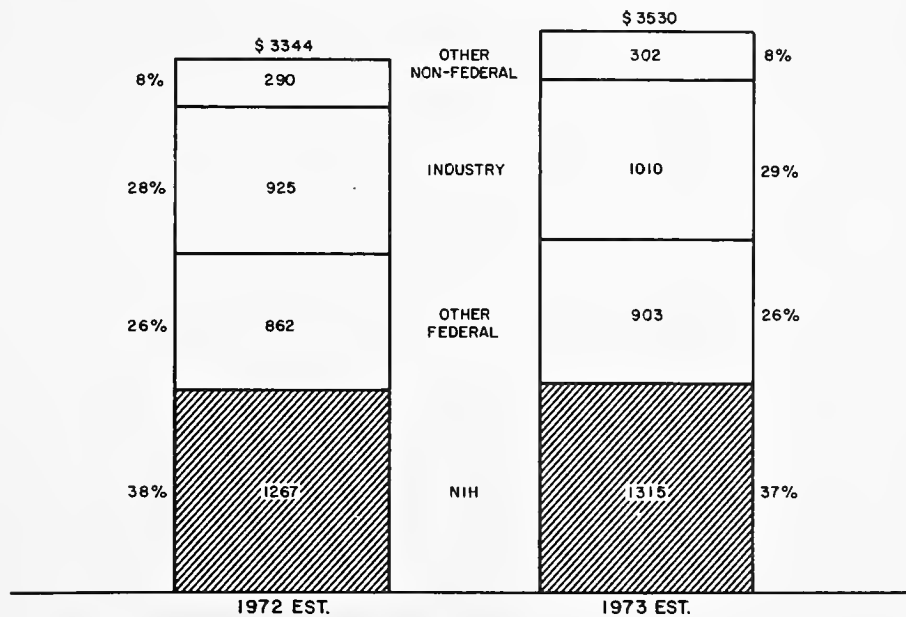
NATIONAL SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, 1947-1972 Est. (Cont.)^{*}
By Source and by Performer (in Millions of Dollars)

Sector	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972 est.
Total of A or B	\$845	\$1,045	\$1,290	\$1,486	\$1,652	\$1,837	\$2,053	\$2,281	\$2,486	\$2,672	\$2,728	\$3,002	\$3,344
<i>A. BY SOURCE OF FUNDS</i>													
Government	471	604	818	964	1,099	1,229	1,377	1,624	1,640	1,728	1,740	1,935	2,208
Federal	448	574	782	919	1,049	1,174	1,316	1,459	1,571	1,656	1,664	1,857	2,129
State and local	23	30	37	45	50	55	61	65	69	72	76	78	79
Industry	253	312	336	375	400	450	510	580	661	754	795	860	925 [†]
Private nonprofit	121	129	136	147	153	158	158	177	185	190	193	207	211
Foundations & health agencies	76	77	78	85	88	88	91	100	106	108	108	120	124
Other private contributors	12	15	18	21	22	25	28	29	30	32	32	33	33
Endowment	19	19	19	19	19	19	19	19	19	19	19	19	19
Institutions' own funds	14	18	20	22	24	26	28	29	30	32	34	35	35
<i>B. BY PERFORMER OF R & D</i>													
Federal Government	138	164	215	250	272	305	345	369	398	443	489	538	587
Industry	280	346	384	433	479	537	626	715	799	891	925	988	1,082 [†]
Private nonprofit	427	535	891	803	901	995	1,082	1,197	1,289	1,338	1,314	1,476	1,676
Higher education	286	371	479	550	617	684	751	815	905	962	933	1,022	1,192
Other	141	164	212	253	284	311	331	382	384	376	381	454	483

See footnote on previous page.

NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL R & D* EST. 1972 AND 1973 (IN MILLIONS)

7



* COVERS ONLY MEDICAL AND HEALTH-RELATED R & D — NO TRAINING OR CONSTRUCTION.

FEDERAL SOURCES OF SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, FY 1947-1972*
(Obligations in millions of dollars)

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Total Federal	\$27.0	\$49.7	\$65.1	\$72.9	\$84.6	\$103.4	\$107.3	\$119.0	\$138.9	\$162.0	\$228.9	\$279.2	\$351.2
Dept. of Health, Educ., & Welfare	12.2	21.8	30.9	36.1	39.1	43.8	46.6	58.6	69.7	86.7	142.3	182.7	237.9
National Institutes of Health†	8.3	17.0	24.5	27.7	30.8	34.8	37.5	49.4	60.1	72.8	125.4	160.2	211.6
HSMHA	—	—	—	—	—	—	—	—	—	—	—	—	—
Other PHS	3.4	4.4	5.7	7.7	7.3	7.9	7.9	8.2	8.2	11.3	13.3	16.5	19.0
Other DHEW	0.5	0.5	0.7	0.8	0.9	1.1	1.1	1.0	1.5	2.6	3.7	5.9	7.4
Dept. of Defense	8.4	8.2	8.5	9.7	14.1	24.6	23.5	21.4	23.7	25.7	26.2	30.7	32.1
Atomic Energy Commission	1.8	13.3	16.9	18.3	21.2	24.9	25.8	26.0	28.6	29.8	32.8	36.9	43.7
Nat. Aeronautics & Space Admin.	—	—	—	—	—	—	—	—	—	—	—	—	—
Veterans Administration	1.4	2.6	4.3	3.7	5.0	3.9	5.1	5.3	5.6	6.5	10.4	10.0	12.8
Dept. of Agriculture	2.9	3.5	4.3	4.8	4.9	5.5	5.6	5.9	9.0	10.1	12.7	14.0	14.7
Dept. of Transportation	—	—	—	0.1	0.1	0.1	†	†	†	†	†	0.1	0.1
National Science Foundation	—	—	—	—	—	0.3	0.4	0.9	1.6	2.4	3.4	3.9	8.4
Dept. of Interior	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6
Dept. of State	—	—	—	—	—	—	†	†	†	†	†	†	0.5
Environmental Protection Agency	—	—	—	—	—	—	—	—	—	—	—	—	—
Dept. of Commerce	—	—	—	—	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2
Tennessee Valley Authority	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.2	0.3	0.2

*Covers medical and health-related R & D (projects, resources, and general support) but not training or construction. †As organized in the year specified.

‡Less than \$50 thousand. §Contains NIMH, previously in NIH and later in HSMHA. ||Contains FDA. ◇FDA only.

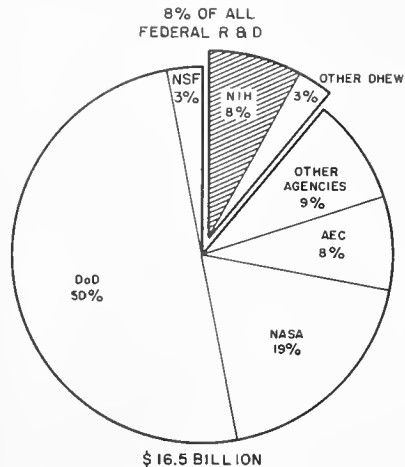
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FEDERAL SOURCES OF SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, FY 1947-1972* (Continued)
(Obligations in millions of dollars)

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Total Federal	\$448.2	\$573.9	\$782.1	\$919.0	\$1,048.7	\$1,174.2	\$1,316.2	\$1,459.4	\$1,571.2	\$1,656.1	\$1,664.0	\$1,856.9	\$2,129.2
Dept. of Health, Educ., & Welfare	310.7	412.6	562.1	641.6	752.5	826.2	925.3	1,051.2	1,128.2	1,174.1	1,176.9	1,298.1	1,578.2
National Institutes of Health†	280.6	375.4	495.4	566.0	651.0	715.1	790.9	812.4	864.0	889.9	873.3	1,038.9	1,267.1
HSMHA	—	—	—	—	—	—	—	—	141.1	173.8	174.8	207.4	244.7
Other PH5	20.5	24.3	51.4	57.3	70.8	66.8	88.3	200.0 ⁵	78.3	68.8	73.2	22.4 [◇]	30.4 [◇]
Other DHEW	9.6	12.9	15.2	18.3	30.7	44.4	46.0	38.8	44.8	41.6	55.6	29.3	36.0
Dept. of Defense	41.5	47.3	73.7	88.4	86.5	101.3	119.2	117.5	114.0	117.5	124.9	124.2	126.0
Atomic Energy Commission	50.3	55.7	64.7	74.7	78.1	84.6	89.6	95.9	95.0	97.9	104.2	104.9	102.7
Nat. Aeronautics & Space Admin.	0.9	4.9	13.6	34.2	41.2	60.0	75.4	81.6	108.6	116.8	85.9	74.9	50.3
Veterans Administration	15.1	18.4	26.8	29.9	33.2	36.9	40.7	44.8	45.6	50.3	58.7	62.7	68.9
Dept. of Agriculture	15.0	18.8	21.7	23.3	27.9	40.5	44.7	45.4	45.8	48.2	50.1	60.3	67.3
Dept. of Transportation	0.8	1.8	1.8	2.9	2.9	2.8	2.5	2.4	4.5	7.3	9.7	41.9	39.0
National Science Foundation	11.9	12.2	15.3	21.1	23.1	19.7	13.8	13.8	21.1	25.6	28.0	33.5	36.5
Dept. of Interior	0.7	0.9	0.9	1.5	1.8	0.6	1.9	2.0	2.7	4.4	12.4	22.6	34.9
Dept. of State	0.8	0.8	1.0	0.7	0.7	0.8	1.5	2.2	2.7	8.7	10.8	15.2	15.1
Environmental Protection Agency	—	—	—	—	—	—	—	—	—	—	—	13.1	3.1
Dept. of Commerce	0.3	0.3	0.3	0.3	0.4	0.4	0.8	1.1	0.7	2.9	0.6	3.3	4.2
Tennessee Valley Authority	0.2	0.3	0.2	0.2	0.4	0.6	0.9	1.5	2.2	2.4	1.9	2.2	2.9

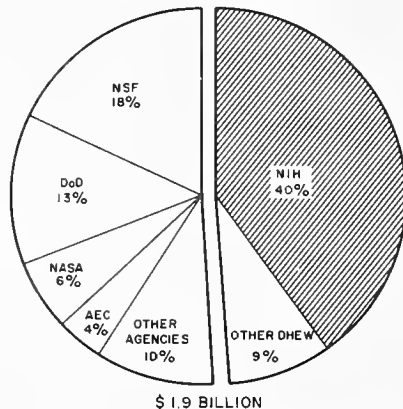
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NIH ACCOUNTS FOR- 40% OF FEDERAL FUNDS FOR R & D AT EDUCATIONAL INSTITUTIONS



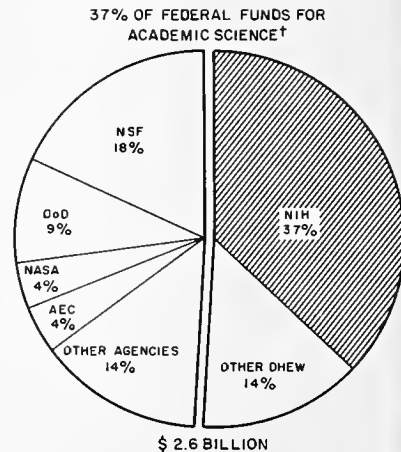
SOURCE FOR TOTAL R & D: *SPECIAL ANALYSIS, BUDGET OF THE U.S. GOVT., FY 1974, GPD 1973*

SOURCE FOR ACADEMIC R & D AND ACADEMIC SCIENCE: NSF AND NIH.



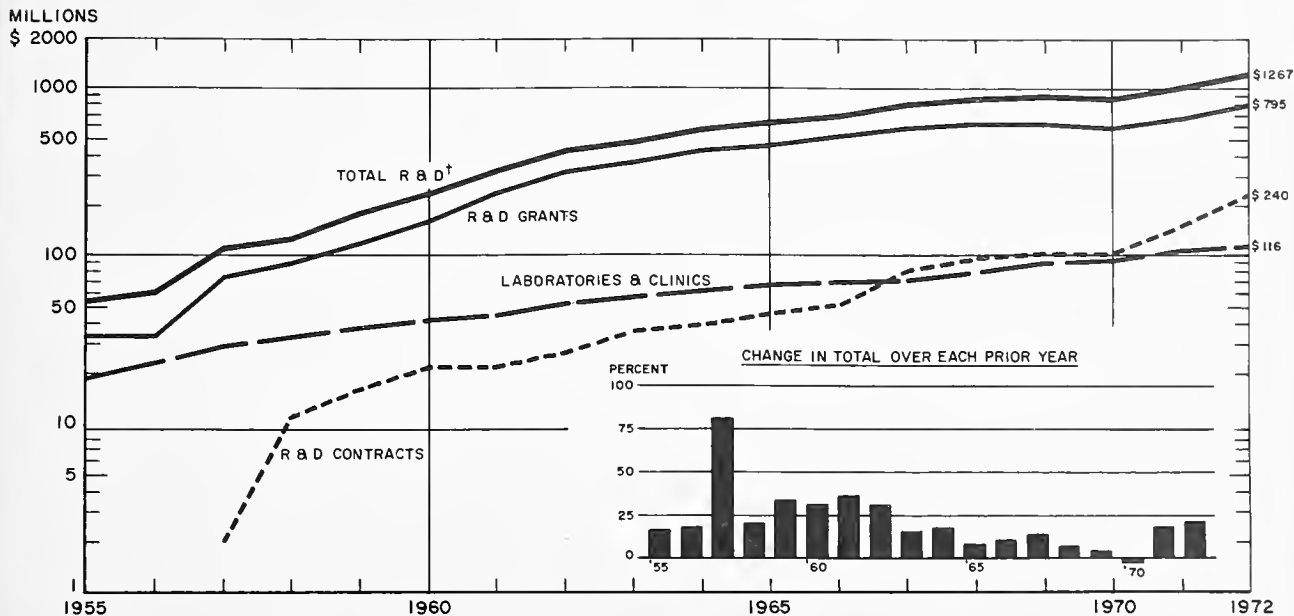
FEDERAL SUPPORT, FY 1972 (IN MILLIONS)

AGENCY	R & D	EDUC. INSTITUTIONS*	
		R & D	ACADEMIC SCIENCE†
TOTAL	\$16,500	\$1,906	\$2,606
DHEW	1,763	936	1,327
NIH	1,267	763	962
OTHER	496	173	365
NSF	456	335	459
DoD	8,294	244	244
NASA	3,183	122	119
AEC	1,298	87	95
OTHER	1,506	192	362



*ESTIMATED. †R & D, TRAINING, FACILITIES, RESOURCES.

NIH FUNDS OBLIGATED FOR RESEARCH AND DEVELOPMENT, FISCAL YEARS 1955-1972* 11



*EXCLUDING CONSTRUCTION AND PROGRAMS TRANSFERRED OUT OF NIH. †R & D GRANTS, R & D CONTRACTS, LABORATORIES & CLINICS, COLLABORATIVE PROGRAMS, FIC, FOREIGN CURRENCY PROGRAMS, BIOMETRY/EPIDEMIOLOGY/FIELD STUDIES, AND PROGRAM MANAGEMENT APPLICABLE TO R & D.

NUMBER OF SCHOOLS, STUDENTS, AND GRADUATES OF NINE HEALTH PROFESSIONS, UNITED STATES, 1967-1972*

Academic year	Medicine	Osteopathic medicine	Dentistry	Optometry	Pharmacy	Podiatric medicine	Veterinary medicine	Nursing (R.N.)†	Public health
Number of schools:									
1966-67	90	5	49	10	74	5	18	1,225	13
1967-68	94	5	50	10	74	5	18	1,269	15
1968-69	99	5	52	10	74	5	18	1,293	15
1969-70	101	6	53	11	74	5	18	1,339	16
1970-71	103	7	53	11	74	5	18	1,355	16
1971-72	108	7	52	12	74	5	18	1,363	17
Total enrollment:									
1966-67	33,449	1,763	14,420	1,882	13,261	838	4,388	139,070	†
1967-68	34,538	1,823	14,955	1,962	14,274	924	4,615	141,948	†
1968-69	35,833	1,879	15,410	2,203	14,986	1,061	4,779	145,588	†
1969-70	37,669	1,997	16,008	2,488	15,097	1,095	4,868	150,795	3,843
1970-71	40,506	2,151	16,553	2,821	15,326	1,148	4,997	164,545	4,355
1971-72	43,276	2,306	17,219	3,094	22,449	1,276	5,164	187,551	4,861
First-year students:									
1966-67	8,990	480	3,942	669	5,173	283	1,305	58,700	†
1967-68	9,479	509	4,200	646	4,616	291	1,311	61,389	†
1968-69	9,863	521	4,203	771	5,469	331	1,311	64,157	†
1969-70	10,401	577	4,355	786	5,428§	293	1,338	75,349	†
1970-71	11,367	623	4,565	879	5,694§	349	1,430	79,282	†
1971-72	12,375	670	4,752	906	7,101	399	1,453	†	†
Graduates:									
1966-67	7,743	405	3,360	481	3,789	165	952	38,237	†
1967-68	7,973	427	3,457	477	4,026	162	1,086	41,555	†
1968-69	8,509	427	3,433	441	4,278	204	1,166	42,196	1,564
1969-70	8,367	432	3,749	445	4,758	251	1,202	43,639	1,904
1970-71	8,974	475	3,736	528	4,790	241	1,239	47,001	1,871
1971-72	9,617	491	3,951	683	4,900	286	1,252	†	†

*Prepared by DMI, 8HME. Includes only schools for professions covered by the Health Professions Educational Assistance Act, the Comprehensive Health Manpower Training Act, the Nurse Training Acts, and the PHS Act, sec. 306 and 309. Data refer to schools in full operation and new schools beginning in the year in which the first students were enrolled.

†Data refer either to nursing schools or to programs for nurse education. Includes figures for Guam. †Not available. §Figures for Puerto Rico not available.

CONSOLIDATED NIH APPROPRIATIONS, FY 1950-1968 (In Thousands of Dollars)*
Including and Excluding Programs Transferred Out (PTO)†

Activity	1950		1951		1952		1953		1954		1955		1956	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$52,146	\$36,818	\$60,060	\$43,613	\$57,876	\$40,819	\$59,031	\$42,041	\$71,153	\$53,948	\$61,268	\$61,948	\$98,458	\$73,818
Research programs	24,783	23,820	29,533	27,740	32,010	29,772	36,908	34,026	40,311	43,437	57,789	50,858	69,290	60,479
Regular grants	13,066	12,272	18,784	15,632	18,173	16,760	20,374	18,789	29,866	26,279	33,918	30,331	38,288	34,351
General research support grants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Centers, resources & other grants	1,000	1,000	949	949	900	900	900	900	1,100	1,100	1,100	1,100	1,300	1,300
Laboratories & clinics	10,697	10,348	11,875	11,034	12,811	11,986	15,508	14,211	17,895	15,946	22,187	19,317	27,414	23,813
Collaborative R&D	—	—	—	—	—	—	—	—	—	—	—	—	900	900
Other direct research†	—	—	125	125	126	126	126	126	450	112	564	110	1,388	115
Research training	9,034	4,807	8,353	4,668	9,240	4,881	10,278	8,208	13,006	8,683	13,663	9,116	17,353	11,117
Grants & traineeships	6,415	3,459	6,652	3,303	7,392	3,392	8,184	4,434	10,813	6,537	11,051	6,741	14,502	8,617
Fellowships & res. career awards	1,448	1,348	1,565	1,365	1,755	1,499	2,024	1,774	2,133	1,946	2,562	2,375	2,800	2,500
Direct training	171	—	136	—	93	—	70	—	80	—	50	—	61	—
Research construction grants	5,775	5,775	9,459	9,459	4,625	4,625	—	—	—	—	—	—	—	—
Community programs	11,588	—	10,667	—	9,721	—	9,593	—	7,493	—	7,440	—	9,994	—
State control grants	9,050	—	8,100	—	7,700	—	7,650	—	6,700	—	5,700	—	6,375	—
Professional & tech. assistance	2,538	—	2,557	—	2,021	—	1,943	—	1,793	—	1,740	—	2,619	—
Regional medical programs	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hosp. & comm. demon. grants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Program management	1,986	1,614	2,058	1,646	2,078	1,631	2,252	1,807	2,343	1,929	2,396	1,974	2,821	2,322

*Excludes direct construction and P.L. 480 programs. †NIMH, community programs, biologics standards.

‡Biologics standards; international; dental resources;

computer res. & tech.; biometry, epid. & field. §Includes \$500 thousand for renovation of FIC.

(Continued)

CONSOLIDATED NIH APPROPRIATIONS, FY 1950-1968 (In Thousands of Dollars) (Cont.)^{*}
Including and Excluding Programs Transferred Out (PTO)[†]

Activity	1957		1958		1959		1960		1961		1962	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$213,007	\$168,114	\$241,183	\$191,229	\$324,383	\$257,836	\$430,000	\$343,382	\$590,000	\$469,239	\$773,336	\$630,790
Research programs	131,390	113,378	152,545	132,274	210,391	182,400	277,505	243,691	389,676	338,241	531,891	472,432
Regular grants	89,682	78,256	97,729	85,327	141,454	122,620	196,314	173,435	263,037	225,930	337,637	297,000
General research support grants	—	—	—	—	—	—	—	—	14,658	12,936	20,000	17,445
Centers, resources & other grants	1,900	1,900	1,900	1,900	2,400	2,400	5,587	5,029	28,110	27,110	76,442	73,234
Laboratories & clinics	33,160	28,264	38,170	32,406	45,839	38,918	49,895	42,313	58,470	49,934	69,674	59,665
Collaborative R&O	4,668	4,668	12,340	12,340	18,142	18,142	22,142	22,142	21,538	21,538	25,088	25,088
Other direct research [‡]	1,980	288	2,406	301	2,556	320	3,577	772	3,763	793	3,050	—
Research training	33,723	20,976	39,631	24,906	60,614	40,905	89,942	81,640	132,339	90,377	148,061	108,666
Grants & traineeships	28,075	16,075	32,932	18,932	49,902	31,689	75,037	48,831	110,000	70,530	118,506	83,650
Fellowships & res. career awards	5,397	4,750	6,440	5,793	10,408	9,012	14,570	12,674	22,000	19,610	29,080	24,640
Direct training	251	150	259	181	304	204	335	235	339	237	475	375
Research construction grants	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	35,000	35,000
Community programs	13,231	—	13,905	—	17,822	—	22,661	—	26,197	—	40,472	—
State control grants	8,375	—	8,375	—	8,375	—	10,375	—	13,000	—	15,250	—
Professional & tech. assistance	4,856	—	5,530	—	9,247	—	10,786	—	11,697	—	22,722	—
Regional medical programs	—	—	—	—	—	—	—	—	—	—	—	—
Hosp. & comm. demon. grants	—	—	—	—	—	—	1,500	—	1,500	—	2,500	—
Program management	4,653	3,763	5,102	4,049	5,756	4,531	9,892	8,051	11,888	9,821	17,911	14,893

See footnotes at beginning of table.

(Continued)

CONSOLIDATED NIH APPROPRIATIONS, FY 1950-1968 (In Thousands of Dollars) (Cont.)*
Including and Excluding Programs Transferred Out (PTO)†

Activity	1963		1964		1965		1966		1967		1968	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$930,800	\$756,704	\$974,454	\$793,293	\$1,068,992	\$831,091	\$1,244,406	\$979,831	\$1,412,983	\$1,045,956	\$1,178,824	\$1,111,461
Research programs	822,776	548,942	862,938	674,526	689,209	605,652	798,820	679,616	879,299	782,694	860,833	852,184
Regular grants	397,661	347,620	442,881	379,845	426,532	370,644	457,580	398,654	513,230	450,008	482,026	482,026
General research support grants	30,000	26,100	30,000	25,730	45,000	39,116	45,200	39,361	51,700	45,266	56,033	56,033
Centers, resources & other grants	63,875	61,875	55,000	53,250	69,934	58,184	81,216	78,966	95,501	93,251	101,953	101,953
Laboratories & clinics	67,434	57,344	71,138	60,530	77,154	66,006	82,728	71,108	90,479	77,403	81,165	81,165
Collaborative R&D	59,806	56,003	58,060	54,097	74,472	70,555	91,460	87,596	113,445	109,726	113,037	113,037
Other direct research†	4,000	—	5,860	1,073	8,116	1,147	10,736	3,930	14,944	7,040	26,619	17,970
Research training	196,998	141,089	218,853	148,004	231,935	149,677	268,333	172,348	286,928	181,813	194,926	194,826
Grants & traineeships	154,139	104,766	172,602	107,434	181,311	108,098	209,896	123,665	224,486	130,038	138,806	138,806
Fellowships & res. career awards	41,838	35,698	45,786	38,106	48,985	40,928	56,330	47,966	60,123	50,990	54,991	54,991
Direct training	1,221	625	1,465	464	1,639	651	2,107	717	2,319	885	1,129	1,129
Research construction grants	50,000	50,000	56,000	56,000	93,000	58,000	106,000	106,000	106,000	56,000	35,000	35,000
Community programs	40,339	—	14,948	—	22,942	—	73,887	—	108,101	—	66,868	—
State control grants	21,450	—	10,850	—	6,750	—	6,750	—	6,750	—	—	—
Professional & tech. assistance	14,138	—	3,998	—	4,182	—	6,637	—	7,570	—	2,968	—
Regional medical programs	—	—	—	—	—	—	24,000	—	43,000	—	53,900	—
Hosp. & comm. demon. grants	4,750	—	—	—	12,000	—	37,500	—	51,781	—	—	—
Program management	20,687	16,673	20,714	16,764	21,907	17,862	27,266	21,968	31,655	25,349	31,297 [§]	29,351 [§]

See footnotes at beginning of table.

CONSOLIDATED NIH APPROPRIATIONS, FY 1969-1974 est.*
(In thousands of dollars)

Activity	1969				1970				1971			
	NIH	I/RD	BHME	NLM	NIH	I/RD	BHME	NLM	NIH	I/RD	BHME	NLM
Total	\$1,394,052	\$1,108,482	\$267,400	\$18,160	\$1,526,240	\$1,122,719	\$373,616	\$19,682	\$1,654,453	\$1,191,800	\$432,310	\$21,440
Research programs	880,639	870,827	8,879	833	901,816	892,274	8,946	695	988,167	877,873	9,589	595
Regular grants	478,700	473,113	4,754	833	477,140	471,764	4,796	590	483,554	478,263	4,701	590
General research support grants	52,945	52,945	—	—	52,945	52,945	—	—	46,173	46,173	—	—
Centers, resources & other grants	107,061	107,061	—	—	119,119	119,114	—	5	135,438	135,433	—	5
Laboratories & clinics	86,648	86,648	—	—	89,871	89,871	—	—	113,004	113,004	—	—
Collaborative R & D	124,796	124,796	—	—	133,525	133,525	—	—	184,489	184,489	—	—
Other direct research†	30,489	26,364	4,125	—	29,215	25,055	4,160	—	25,499	20,611	4,888	—
Research training	200,729	198,778	1,950	—	202,462	200,612	1,950	—	184,942	182,992	1,950	—
Grants & traineeships	142,540	141,390	1,150	—	147,619	146,469	1,150	—	133,472	132,322	1,150	—
Fellowships & res. career awards	67,162	56,362	800	—	53,991	53,191	800	—	50,764	49,964	800	—
Direct training	1,026	1,026	—	—	852	852	—	—	706	706	—	—
Education grants	168,395	—	159,395	—	223,776	—	223,776	—	263,830	—	263,830	—
Institutional support	96,846	—	96,846	—	139,938	—	139,938	—	163,517	—	163,517	—
Loans & scholarships	42,529	—	42,529	—	63,817	—	63,817	—	77,693	—	77,693	—
Traineeships	20,020	—	20,020	—	20,020	—	20,020	—	22,620	—	22,620	—
Biomedical communications	14,943	—	—	14,943	16,945	—	—	16,945	18,043	—	—	18,043
Medical library grants	4,955	—	—	4,955	5,197	—	—	5,197	5,397	—	—	5,397
NLM direct operations	9,988	—	—	9,988	11,748	—	—	11,748	12,646	—	—	12,646
Construction grants	93,800	9,000	94,800	—	126,100	—	126,100	—	141,100	—	141,100	—
Program management‡	44,547	29,787	12,376	2,384	54,143	29,933	12,945	2,142	58,381	30,835	15,841	2,802

*Excludes P. L. 480 program. †Includes DBS (thru FY 1972); international; DCRT (thru FY 1970); BHME direct research; biometry, epid. & field.

‡From FY 1970 on, NIH columns (only) include buildings & facilities (\$3.6 million for FY 1972) and OD (\$11.7 million for FY 1972). This line also contains the second FY 1972 supplemental for pay raise. §Reflects new activity structure. ||From FY 1974 President's Budget of 1/15/73.

(Continued)

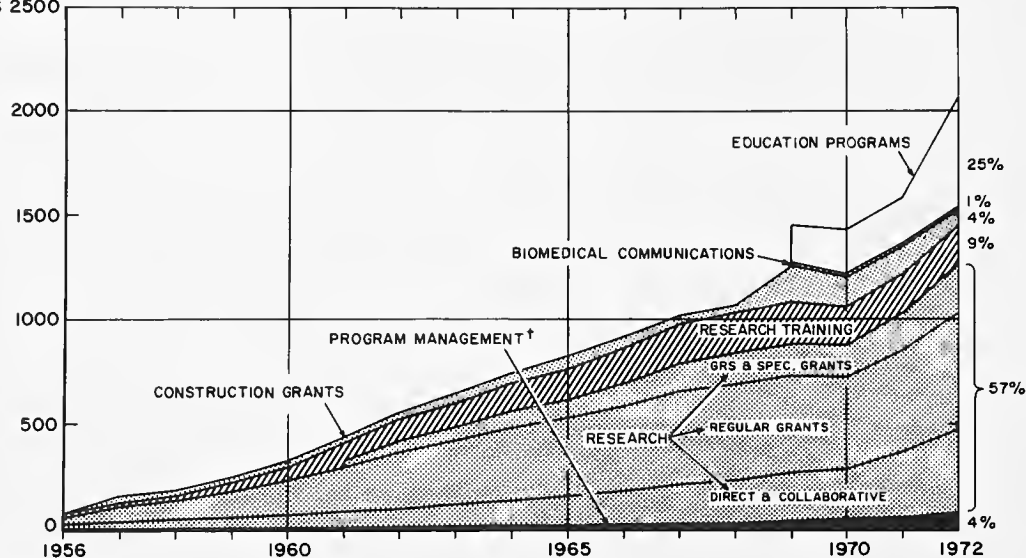
CONSOLIDATED NIH APPROPRIATIONS, FY 1969-1974 est. (Cont.)
(In thousands of dollars)

Activity [§]	1972				1973 est.				1974 est.			
	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM
Total	\$2,183,121	\$1,476,046	\$677,671	\$24,127	\$1,973,112	\$1,483,648	\$444,470	\$24,994	\$1,962,950	\$1,531,776	\$386,180	\$24,994
Research programs	1,185,463	1,184,718	—	745	1,228,656	1,227,896	—	760	1,292,030	1,291,270	—	760
Regular grants	570,972	570,322	—	650	587,704	587,004	—	700	581,542	580,842	—	700
General research support grants	47,185	47,185	—	—	26,124	26,124	—	—	17,000	17,000	—	—
Centers, resources & other grants	169,471	169,376	—	95	197,420	197,360	—	60	225,209	225,149	—	60
Laboratories & clinics	113,685	113,685	—	—	121,109	121,109	—	—	126,916	126,916	—	—
Collaborative research & support	42,472	42,472	—	—	43,256	43,256	—	—	43,990	43,990	—	—
Research & development contracts	228,018	228,018	—	—	246,163	246,163	—	—	290,262	290,262	—	—
Other direct research [†]	13,880	13,680	—	—	6,880	6,880	—	—	7,111	7,111	—	—
Research training	198,298	198,412	1,886	—	149,197	149,187	—	—	128,413	128,413	—	—
Grants & traineeships	146,511	145,425	1,086	—	112,138	112,138	—	—	96,334	96,334	—	—
Fellowships & res. career awards	51,787	50,987	800	—	37,059	37,059	—	—	32,079	32,079	—	—
Education programs	483,368	—	483,388	—	419,748	—	419,748	—	365,991	—	366,991	—
Institutional assistance grants	330,796	—	330,796	—	261,085	—	261,085	—	217,500	—	217,500	—
Loans & scholarships	90,000	—	90,000	—	96,000	—	96,000	—	82,000	—	82,000	—
Traineeships	23,620	—	23,620	—	24,250	—	24,250	—	1,600	—	1,600	—
Other support (grants & contracts)	48,952	—	48,952	—	38,413	—	38,413	—	64,891	—	64,891	—
Biomedical communications	20,177	—	—	20,177	20,252	—	—	20,262	20,252	—	—	20,262
Medical library grants	6,147	—	—	6,147	5,762	—	—	5,762	5,762	—	—	5,762
NLM direct operations	14,030	—	—	14,030	14,490	—	—	14,490	14,490	—	—	14,490
Construction grants	214,885	52,000	162,885	—	51,000	49,000	2,000	—	22,000	20,000	2,000	—
Control programs	—	—	—	—	4,000	4,000	—	—	34,000	34,000	—	—
Program management [‡]	80,930	42,916	19,532	3,205	100,259	53,555	22,722	3,982	100,264	58,093	18,189	3,982

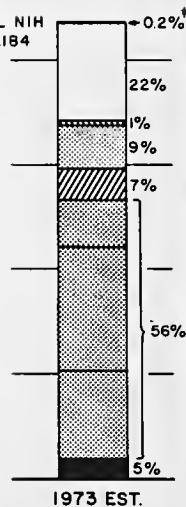
See footnotes on previous page.

NIH OBLIGATED FUNDS BY FUNCTION, FY 1956 - 1973 EST. EXCLUDING PROGRAMS THAT HAVE BEEN TRANSFERRED OUT*

MILLIONS
\$ 2500



EST. TOTAL NIH
1973 \$ 2184



* NIMH, COMMUNITY PROGRAMS, AND BIOLOGICS STANDARDS. ALSO EXCLUDES FOREIGN CURRENCY PROGRAM. INCLUDES BHME AND NLM FROM FY 1969 ON.

† INCLUDES BUILDINGS AND FACILITIES FROM FY 1969 ON. BUT CHART EXCLUDES DIRECT CONSTRUCTION FOR PRIOR YEARS. † CANCER CONTROL.

CONSOLIDATED NIH OBLIGATIONS, FY 1950-1967 (In Thousands of Dollars)*
Including and Excluding Programs Transferred Out (PTO)†

Activity	1950		1951		1952		1953		1954		1955	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$69,236	\$42,881	\$45,560	\$32,313	\$52,010	\$36,487	\$56,227	\$39,822	\$69,444	\$53,090	\$80,963	\$61,810
Research programs	24,999	23,676	28,141	26,970	32,109	29,879	35,249	32,587	47,210	42,939	57,639	50,786
Regular grants	13,140	12,127	15,559	14,976	18,157	16,754	20,335	18,750	28,865	26,278	33,893	30,307
General research support grants	—	—	—	—	—	—	—	—	—	—	—	—
Centers, resources & other grants	1,085	1,085	926	926	899	899	899	899	1,036	1,036	1,144	1,144
Laboratories & clinics	10,704	10,394	11,531	10,943	12,929	12,102	13,893	12,816	17,199	15,515	22,035	19,223
Collaborative R&O	—	—	—	—	—	—	—	—	—	—	—	—
Other direct research‡	70	70	125	125	124	124	122	122	110	110	567	112
Research training	9,404	5,485	5,781	3,826	8,659	4,948	9,519	5,576	12,766	8,359	13,587	9,069
Grants	7,213	3,571	3,498	1,873	6,318	2,933	6,689	3,059	9,345	5,171	9,758	5,452
Traineeships	508	508	532	532	523	523	749	749	1,243	1,243	1,249	1,249
Fellowships	1,510	1,406	1,643	1,421	1,747	1,492	2,017	1,768	2,132	1,945	2,555	2,368
Research career program awards	—	—	—	—	—	—	—	—	—	—	—	—
Direct training	173	—	108	—	71	—	64	—	46	—	25	—
Research construction grants	12,059	12,059	—	—	—	—	—	—	—	—	—	—
Community programs	10,762	—	9,729	—	9,163	—	9,396	—	7,319	—	7,372	—
State control grants	8,309	—	7,467	—	7,219	—	7,515	—	5,575	—	5,615	—
Professional & technical assistance	2,453	—	2,262	—	1,944	—	1,881	—	1,744	—	1,757	—
Regional medical programs	—	—	—	—	—	—	—	—	—	—	—	—
Hospital & comm. demon. grants	—	—	—	—	—	—	—	—	—	—	—	—
Program management	2,012	1,661	1,909	1,517	2,079	1,660	2,063	1,659	2,149	1,792	2,365	1,955

*Obligations = appropriations ± carryover ± transfers — lapsing unobligated balances (inc. reserves). Excludes direct construction and P.L. 480 programs. †NIMH, community programs, biologics standards. ‡Biologics standards; international; dental resources; computer res. & tech.; biometry, epid. & field.

(Continued)

CONSOLIDATED NIH OBLIGATIONS, FY 1950-1967 (In Thousands of Dollars) (Cont.)^{*}
Including and Excluding Programs Transferred Out (PTO)[†]

Activity	1956		1957		1958		1959		1960		1961	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$98,099	\$72,857	\$199,856	\$160,836	\$240,261	\$191,211	\$316,170	\$253,202	\$411,356	\$329,176	\$551,623	\$446,123
Research programs	68,640	58,829	122,235	108,068	163,396	132,823	203,460	177,624	262,528	229,277	360,742	317,478
Regular grants	38,583	34,646	80,609	73,189	99,954	87,552	140,676	123,747	185,474	162,844	240,608	210,849
General research support grants	—	—	—	—	—	—	—	—	—	—	—	—
Centers, resources & other grants	1,299	1,299	1,897	1,897	—	—	—	—	5,509	4,956	31,894	30,763
Laboratories & clinics	27,243	23,589	33,796	28,742	39,886	33,863	44,884	38,212	49,051	41,682	52,877	44,912
Collaborative R&D	—	—	3,975	3,975	11,102	11,102	15,346	15,346	19,795	19,795	32,037	30,952
Other direct research [‡]	1,515	115	1,959	285	2,454	306	2,554	319	2,899	—	2,926	—
Research training	17,186	10,939	32,537	20,481	39,226	26,304	80,247	40,804	89,804	81,619	130,127	88,312
Grants	13,328	7,444	25,563	14,061	30,885	17,398	47,438	29,228	71,952	45,755	107,679	68,209
Traineeships	1,015	1,015	1,452	1,452	1,900	1,900	2,374	2,374	2,721	2,721	2,249	2,249
Fellowships	2,780	2,480	5,417	4,926	8,434	5,972	10,155	9,010	14,856	12,860	19,843	17,626
Research career program awards	—	—	—	—	—	—	—	—	—	—	—	—
Direct training	42	—	105	42	206	134	280	194	275	183	356	228
Research construction grants	—	—	30,000	30,000	30,000	30,000	29,960	29,960	30,039	30,039	29,985	29,985
Community programs	9,390	—	12,084	—	13,873	—	16,402	—	19,947	—	19,394	—
State control grants	6,286	—	8,173	—	8,214	—	8,233	—	10,006	—	12,556	—
Professional & technical assistance	3,104	—	3,891	—	5,459	—	7,169	—	8,594	—	6,143	—
Regional medical programs	—	—	—	—	—	—	—	—	—	—	—	—
Hospital & comm. demon. grants	—	—	—	—	—	—	—	—	1,347	—	1,695	—
Program management	2,904	2,289	3,019	2,387	3,967	3,084	6,101	4,814	9,038	7,340	11,375	9,350

See footnotes at beginning of table.

(Continued)

CONSOLIDATED NIH OBLIGATIONS, FY 1950-1967 (In Thousands of Dollars) (Cont.)^{*}
Including and Excluding Programs Transferred Out (PTO)[†]

Activity	1962		1963		1964		1965		1966		1967	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$673,007	\$562,259	\$801,070	\$658,027	\$926,779	\$751,516	\$1,021,882	\$831,491	\$1,199,989	\$926,031	\$1,061,581	\$1,024,541
Research programs	471,974	415,409	547,493	477,214	627,414	651,918	685,097	603,142	766,317	678,489	781,888	774,104
Regular grants	308,562	269,396	353,105	304,649	401,868	350,811	425,516	369,796	465,350	405,476	448,012	448,012
General research support grants	20,000	17,573	30,000	26,100	35,000	30,380	45,000	39,116	45,200	39,361	45,266	45,266
Centers, resources & other grants	40,099	39,219	40,643	39,862	52,466	50,862	57,059	55,680	75,807	74,515	93,501	93,501
Laboratories & clinics	62,076	52,896	67,101	57,073	72,072	61,586	78,354	67,185	81,499	69,567	71,777	71,777
Collaborative R&D	38,201	36,325	52,279	48,688	60,017	56,561	72,918	69,538	90,197	86,562	102,443	102,443
Other direct research [‡]	3,036	—	4,365	842	5,991	1,718	6,250	1,827	8,264	3,008	20,889	13,105
Research training	142,419	99,777	171,584	115,877	207,661	132,422	227,190	145,667	263,873	169,260	183,285	183,285
Grants	112,240	73,672	132,871	83,805	161,874	95,006	175,806	103,384	206,135	121,170	131,876	131,876
Traineeships	2,826	2,826	2,223	2,223	2,264	2,264	2,181	2,181	2,054	2,054	1,977	1,977
Fellowships	16,825	13,864	21,337	17,106	22,416	17,509	25,200	20,095	27,878	22,675	23,361	23,361
Research career program awards	10,011	9,186	14,192	12,483	19,810	17,216	22,448	19,500	25,937	22,778	25,292	25,292
Direct training	517	229	961	260	1,297	427	1,555	507	1,869	583	779	779
Research construction grants	35,011	35,011	50,002	50,002	49,990	49,990	63,719	63,719	95,827	56,266	40,419	40,419
Community programs	8,624	—	13,417	—	20,414	—	22,839	—	46,894	—	27,888	—
State control grants	6,622	—	10,814	—	10,858	—	6,675	—	6,723	—	—	—
Professional & technical assistance	2,002	—	2,603	—	3,565	—	3,990	—	5,493	—	836	—
Regional medical programs	—	—	—	—	—	—	—	—	2,066	—	27,052	—
Hospital & comm. demon. grants	—	—	—	—	5,991	—	11,974	—	32,612	—	—	—
Program management	14,978	12,062	18,574	14,939	21,299	17,184	23,337	18,964	27,077	22,015	28,104	26,736

See footnotes at beginning of table.

CONSOLIDATED NIH OBLIGATIONS, FY 1968-1973 est.*
(In thousands of dollars)

Activity	1968				1969				1970			
	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM
Total	\$1,452,289	\$1,044,492	\$380,531	\$27,266	\$1,482,899	\$1,073,519	\$387,141	\$21,739	\$1,448,393	\$1,038,000	\$382,399	\$19,758
Research programs	838,658	829,105	8,292	1,261	856,773	846,573	8,879	1,321	840,403	830,997	8,411	995
Regular grants	466,830	461,327	4,242	1,261	461,024	454,949	4,754	1,321	442,557	437,316	4,251	990
General research support grants	54,217	54,217	—	—	52,945	52,945	—	—	50,310	50,310	—	—
Centers, resources & other grants	99,408	99,408	—	—	106,020	106,020	—	—	102,654	102,649	—	5
Laboratories & clinics	79,356	79,356	—	—	87,948	87,948	—	—	91,996	91,996	—	—
Collaborative R & D	111,111	111,111	—	—	121,142	121,142	—	—	124,845	124,845	—	—
Other direct research†	27,736	23,686	4,050	—	27,694	23,569	4,125	—	28,041	23,881	4,160	—
Research training	188,818	187,318	1,500	—	198,819	196,873	1,946	—	181,348	179,102	2,246	—
Grants	132,854	131,973	880	—	139,478	138,328	1,150	—	129,348	127,901	1,447	—
Traineeships	2,303	2,303	—	—	2,765	2,765	—	—	2,664	2,664	—	—
Fellowships	25,958	25,353	605	—	27,753	26,974	779	—	20,870	20,089	781	—
Research career program awards	26,855	26,840	15	—	28,004	27,987	17	—	27,726	27,708	18	—
Direct training	849	849	—	—	819	819	—	—	740	740	—	—
Education grants	151,470	—	151,470	—	193,203	—	193,203	—	211,478	—	211,479	—
Institutional support	71,539	—	71,539	—	96,646	—	96,646	—	132,110	—	132,110	—
Loans & scholarships	59,244	—	59,244	—	73,549	—	73,549	—	59,384	—	59,384	—
Traineeships	20,687	—	20,687	—	23,008	—	23,008	—	19,985	—	19,985	—
Biomedical communications	14,022	—	—	14,022	18,276	—	—	18,276	16,525	—	—	16,525
Medical library grants	6,032	—	—	6,032	7,833	—	—	7,833	5,162	—	—	5,162
NLM direct operations	7,990	—	—	7,990	10,443	—	—	10,443	11,363	—	—	11,363
Construction grants	220,492	—	210,341	10,151	172,343	—	172,343	—	146,342	—	146,342	—
Program management‡	38,829	28,069	8,928	1,832	43,485	30,073	10,770	2,142	52,296	27,901	13,921	2,238

*Obligations = appropriations ± carryover ± transfers — lapsing unobligated balances (inc. reserves). Excludes P.L. 480 programs. †Includes D85 (thru FY 1972); international; DCRT (thru FY 1970); 8HME direct research; biometry, epid. & field. ‡NIH columns (only) include buildings & facilities from 1969 on (\$5.1 million for FY 1972) and OD from 1970 on (\$11.2 million for FY 1972). §Reflects new activity structure. ¶From 1973 col. of FY 1974 President's Budget of 1/15/73.

(Continued)

CONSOLIDATED NIH OBLIGATIONS, FY 1968-1973 est. (Cont.)*
(In thousands of dollars)

Activity [§]	1971				1972				1973 est.			
	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM
Total	\$1,596,314	\$1,189,877	\$376,058	\$21,382	\$2,077,908	\$1,474,897	\$562,836	\$23,859	\$2,183,722	\$1,483,648	\$653,201	\$25,049
Research programs	983,414	973,836	8,984	596	1,191,042	1,190,302	—	740	1,228,841	1,227,896	—	745
Regular grants	477,015	472,389	4,036	590	563,954	563,314	—	640	587,654	587,004	—	650
General research support grants	46,173	46,173	—	—	47,185	47,185	—	—	26,124	26,124	—	—
Centers, resources & other grants	146,662	146,657	—	5	180,589	180,489	—	100	197,455	197,360	—	95
Laboratories & clinics	108,540	108,540	—	—	115,682	115,682	—	—	121,109	121,109	—	—
Collaborative research & support	30,358	30,358	—	—	38,827	38,827	—	—	43,256	43,256	—	—
Research & development contracts	156,731	156,731	—	—	230,833	230,833	—	—	246,163	246,163	—	—
Other direct research [†]	17,935	12,987	4,948	—	13,972	13,972	—	—	6,880	6,880	—	—
Research training	183,163	180,711	2,442	—	185,228	185,228	—	—	148,197	149,197	—	—
Grants	130,556	129,156	1,400	—	136,829	136,829	—	—	110,799	110,799	—	—
Traineeships	2,336	2,336	—	—	2,151	2,151	—	—	1,339	1,339	—	—
Fellowships	22,359	21,361	998	—	19,671	19,671	—	—	11,508	11,508	—	—
Research career program awards	27,902	27,858	44	—	26,577	26,577	—	—	25,551	25,551	—	—
Education programs	214,417	—	214,417	—	520,382	—	520,382	—	470,783	—	470,783	—
Institutional assistance grants	163,400	—	163,400	—	298,350	—	298,350	—	292,361	—	292,361	—
Loans & scholarships	33,058	—	33,058	—	163,200	—	163,200	—	96,000	—	96,000	—
Traineeships	17,959	—	17,959	—	27,593	—	27,593	—	24,250	—	24,250	—
Other support (grants & contracts)	—	—	—	—	31,239	—	31,239	—	58,172	—	58,172	—
Biomedical communications	17,932	—	—	17,932	19,511	—	—	19,511	20,322	—	—	20,322
Construction grants	133,192	—	133,192	—	73,819	51,003	22,816	—	208,696	49,000	159,696	—
Control programs	—	—	—	—	—	—	—	—	4,000	4,000	—	—
Program management [‡]	64,206	35,331	16,023	2,855	87,926	48,364	19,637	3,608	102,083	53,555	22,722	3,982

See footnotes on previous page.

ACTUAL OBLIGATIONS, FISCAL YEAR 1972: INSTITUTES AND RESEARCH DIVISIONS
(In thousands of dollars)

Activity	Total*	NIAID	NIAMDD	NCI	NICHD	NIDR	NEI	NIEHS	FIC	NIGMS	NHLI	NINDS	DRR
Total	\$1,474,897	\$109,044	\$153,342	\$378,617	\$116,498	\$43,289	\$36,928	\$26,353	\$4,237	\$173,338	\$232,673	\$116,435	\$74,963
Research programs	1,190,302	93,589	128,455	298,289	96,727	34,965	30,907	21,761	2,360	106,485	189,652	85,281	72,561
Regular grants	563,314	55,398	93,593	68,309	54,663	13,837	23,373	8,966	—	83,886	102,835	58,454	—
General research support grants	47,185	5,149	8,301	6,052	3,980	1,040	1,585	491	—	7,126	8,325	5,136	—
Centers, resources & other grants	180,489	2,399	—	50,841	5,608	6,861	—	3,390	500	10,658	24,098	6,691	70,442
Animal resources	17,337	—	—	—	—	—	—	—	—	—	—	—	17,337
General clinical research centers	42,181	—	—	—	—	—	—	—	—	—	—	—	42,181
Specialized research centers	76,839	—	—	50,203	—	361	—	—	—	—	20,584	5,691	—
Biotechnology resources†	10,924	—	—	—	—	—	—	—	—	—	—	—	10,924
Other special grants	33,208	2,399	—	638	5,608	6,500	—	3,390	500	10,659	3,514	—	—
Laboratories & clinics	115,682	18,753	18,393	21,195	11,666	6,735	3,376	6,604	—	—	18,259	10,701	—
Collaborative research & support	38,827	1,662	807	28,859	124	331	—	—	—	—	—	7,039	5
Research & development contracts	229,630	10,228	6,453	123,033	20,300	5,267	2,262	2,300	—	4,814	44,599	8,260	2,114
Biometry, epid. & field studies	4,035	—	908	—	386	894	311	—	—	—	1,536	—	—
Biologics standards‡	9,280	—	—	—	—	—	—	—	—	—	—	—	—
International center	1,860	—	—	—	—	—	—	—	1,860	—	—	—	—
Research training	185,228	12,456	20,752	20,421	13,694	6,627	4,659	3,361	1,877	59,162	24,905	16,847	477
Grants §	138,980	8,877	15,012	16,474	10,042	5,160	2,983	3,087	—	43,546	19,282	14,165§	352
Fellowships	19,671	932	2,479	1,921	865	785	1,297	94	1,877	6,958	1,311	1,027	125
Research career program awards	26,577	2,647	3,261	2,026	2,787	582	379	180	—	8,649	4,312	1,755	—
Construction grants	61,003	—	—	51,003	—	—	—	—	—	—	—	—	—
Program management	48,364	2,999	4,135	8,904	8,077	1,788	1,362	1,241	—	7,701	8,016	4,327	1,926
Research mgt. & program services	45,837	2,954	4,075	8,904	5,977	1,678	1,347	1,221	—	5,644	8,016	4,207	1,925
Scientific evaluation	2,527	45	60	—	100	110	15	20	—	2,057	—	120	—

* DBS is shown in this column only.
NINDS traineeships.

† Formerly "special research resources."

‡ Entire DBS program (including \$1,203 thousand for R & D contracts).

§ Includes \$2,151 thousand in

ACTUAL OBLIGATIONS, FISCAL YEAR 1972: BUREAU OF HEALTH MANPOWER EDUCATION
(In thousands of dollars)

Activity	Total	DAHM	DDH	DMI	DN	DPHPE	Special Ed. Programs	OD
Total	\$562,835	\$48,643	\$12,148	\$3,564	\$174,895	\$313,365	\$3,787	\$6,432
Education programs	620,382	46,782	7,108	1,427	159,586	300,168	3,551	1,760
Institutional assistance	298,350	35,271	—	—	60,482	202,697	—	—
Formula grants	202,709	16,009	—	—	31,500	155,200	—	—
Project grants	95,641	19,262	—	—	28,982	47,397	—	—
Student assistance grants	190,783	10,875	—	—	91,687	88,331	—	—
Loans	93,273	—	—	—	35,910	57,363	—	—
Scholarships	69,927	—	—	—	38,959	30,968	—	—
Traineeships	27,593	10,875	—	—	16,718	—	—	—
Other support	31,239	636	7,108	1,427	7,617	9,240	3,551	1,760
Computer technology grants	2,998	—	—	—	—	—	2,998	—
Educational assistance	29,000	636	7,108	1,427	7,617	8,240	312	1,760
Grants	16,991	—	5,899	—	4,195	6,897	—	—
Contracts	11,009	636	1,209	1,427	3,322	2,343	312	1,760
Health manp'r ed. initiative awards	241	—	—	—	—	—	241	—
Contracts	241	—	—	—	—	—	241	—
Construction grants	22,816	—	—	—	11,887	10,829	—	—
Teaching facilities	20,958	—	—	—	11,887	9,071	—	—
Research facilities	765	—	—	—	—	765	—	—
Libraries	1,093	—	—	—	—	1,093	—	—
Program management	19,637	1,861	5,041	2,137	3,422	2,268	236	4,672

ACTUAL OBLIGATIONS, FISCAL YEAR 1972: NATIONAL LIBRARY OF MEDICINE
(In thousands of dollars)

Activity	Total	Extramural Programs	Library Operations	Specialized Information Services (Toxicology)	National Medical Audiovisual Center	Lister Hill National Center for Biomedical Communications	Office of the Director
Total	\$23,859	\$7,645	\$7,882	\$1,315	\$2,286	\$1,883	\$2,848
Research programs	740	740	—	—	—	—	—
Regular programs*	640	640	—	—	—	—	—
Special scientific projects*	100	100	—	—	—	—	—
Biomedical communications	19,511	6,145	7,882	1,315	2,286	1,883	—
Grants*	6,145	6,145	—	—	—	—	—
Training	1,233	1,233	—	—	—	—	—
Library resources	2,508	2,508	—	—	—	—	—
Regional medical libraries	2,093	2,093	—	—	—	—	—
Publications	311	311	—	—	—	—	—
Intramural	13,366	—	7,882	1,315	2,286	1,883	—
Construction grants*	—	—	—	—	—	—	—
Program management	3,608	760	—	—	—	—	2,848
Program direction	2,848	—	—	—	—	—	2,848
Review & approval	760	760	—	—	—	—	—

*Funded under Medical Library Assistance Act, totaling \$6,837 thousand.

ESTIMATED OBLIGATIONS, FY 1973: INSTITUTES AND RESEARCH DIVISIONS*
(In thousands of dollars)

Activity	Total	NIAID	NIAMDD	NCI	NICHD	NIDR	NEI	NIEHS	FIC	NIGMS	NHLI	NINDS	DRR
Total	\$1,483,648	\$100,726	\$139,806	\$426,400	\$109,661	\$40,333	\$33,797	\$25,889	\$3,926	\$161,587	\$247,075	\$106,539	\$99,019
Research programs	1,227,896	86,967	118,781	346,496	92,300	33,279	28,569	21,970	2,496	97,822	214,753	87,988	96,476
Regular grants	687,004	54,648	91,272	89,342	54,438	13,928	22,433	8,574	—	82,625	112,890	56,853	—
General research support grants	26,124	—	—	—	—	—	—	—	—	—	—	—	26,124
Centers, resources & other grants	197,360	2,399	—	65,792	6,608	6,680	—	3,550	500	10,719	27,600	5,891	68,921
Animal resources	17,047	—	—	—	—	—	—	—	—	—	—	—	17,047
General clinical research centers	41,374	—	—	—	—	—	—	—	—	—	—	—	41,374
Specialized research centers	80,613	—	—	61,842	—	380	—	—	—	—	22,700	5,691	—
Biotechnology resources	10,500	—	—	—	—	—	—	—	—	—	—	—	10,500
Other special grants	37,826	2,399	—	3,950	5,608	6,200	—	3,550	500	10,719	4,900	—	—
Laboratories & clinics	121,109	18,222	19,343	24,500	11,952	6,905	3,547	7,605	—	—	18,643	10,392	—
Research & development contracts	246,163	9,454	5,724	134,795†	19,659	4,696	2,122	2,241	—	4,478	53,977	7,687	1,430
Collaborative research & support	43,256	2,244	1,233	32,067	—	347	—	—	—	—	—	7,365	—
Biometry, epid. & field studies	4,884	—	1,209	—	643	922	467	—	—	—	1,643	—	—
International center	1,996	—	—	—	—	—	—	—	1,996	—	—	—	—
Research training	149,197	10,601	18,820	16,908	10,808	6,200	3,821	2,879	1,430	45,169	23,400	13,666	307
Grants‡	112,138	8,012	11,720	13,448	7,708	4,084	2,444	2,472	—	32,650	17,500	11,865‡	235
Fellowships	11,508	560	1,700	920	380	493	721	28	1,430	4,236	480	488	72
Research career program awards	25,551	2,029	3,200	1,540	2,520	623	456	178	—	8,273	5,420	1,312	—
Construction grants	49,000	—	—	49,000	—	—	—	—	—	—	—	—	—
Cancer control program	4,000	—	—	4,000	—	—	—	—	—	—	—	—	—
Program management	63,655	3,158	4,406	10,996	8,643	1,854	1,807	1,241	—	8,606	9,922	3,886	2,237
Research management & program services	50,983	3,108	4,335	10,996	8,643	1,794	1,607	1,221	—	6,369	9,922	3,751	2,237
Scientific evaluation	2,572	50	70	—	—	60	—	20	—	2,237	—	135	—

*From FY 1973 column of the FY 1974 President's Budget as revised 1/15/73.

†Includes \$307 thousand carryover.

‡Includes \$1,339 thousand in NINDS traineeships.

ESTIMATED OBLIGATIONS, FISCAL YEAR 1973: BUREAU OF HEALTH MANPOWER EDUCATION*
(In thousands of dollars)

Activity	Total	DAHM	DDH	DMI	DN	DPHPE	Special ed. programs	Office of the Director
Total	\$653,201	\$38,276	\$12,979	\$4,633	\$105,477	\$454,362	\$33,457	\$4,017
Education programs	470,783	35,794	7,842	2,042	91,338	301,408	32,359	—
Institutional assistance	292,361	21,685	—	—	31,800	238,876	—	—
Formula grants	180,553	5,553	—	—	16,800	158,200	—	—
Project grants	111,808	16,132	—	—	15,000	80,676	—	—
Student assistance grants	120,250	12,750	—	—	53,873	53,627	—	—
Loans	61,000	—	—	—	22,873	38,127	—	—
Scholarships	35,000	—	—	—	19,500	15,500	—	—
Traineeships	24,250	12,750	—	—	11,500	—	—	—
Other support	58,172	1,359	7,842	2,042	5,665	8,905	32,359	—
Ed. assistance (grants & contracts)	25,813	1,359	7,842	2,042	5,665	8,905	—	—
Health manp'r ed. initiative awards	32,359	—	—	—	—	—	32,359	—
Grants	31,759	—	—	—	—	—	31,759	—
Contracts	600	—	—	—	—	—	600	—
Construction grants	159,696	—	—	—	10,020	149,676	—	—
Program management	22,722	2,482	5,137	2,591	4,119	3,278	1,098	4,017

*From FY 1973 column of FY 1974 President's Budget as revised 1/15/73. Funded from two appropriations — Health Manpower \$440,470 thousand, and Payment of Sales Insufficiencies \$4,000 thousand — plus carryover. Excludes advance obligational authority.

ESTIMATED OBLIGATIONS, FISCAL YEAR 1973: NATIONAL LIBRARY OF MEDICINE *

29

(In thousands of dollars)

Activity	Total	Extramural Programs	Library Operations	Specialized Information Services (Toxicology)	National Medical Audiovisual Center	Lister Hill National Center for Biomedical Communications	Office of the Director
Total	\$25,049	\$7,446	\$8,371	\$1,523	\$2,566	\$1,930	\$3,213
Research program	745	745	—	—	—	—	—
Regular grants [†]	650	650	—	—	—	—	—
Special scientific projects [†]	95	95	—	—	—	—	—
Biomedical communications	20,322	5,932	8,371	1,523	2,566	1,930	—
Grants [†]	5,932	5,932	—	—	—	—	—
Training	1,080	1,080	—	—	—	—	—
Library resources	2,305	2,305	—	—	—	—	—
Regional medical libraries	2,207	2,207	—	—	—	—	—
Publications	340	340	—	—	—	—	—
Intramural	14,390	—	8,371	1,523	2,566	1,930	—
Construction grants [†]	—	—	—	—	—	—	—
Program management	3,982	769	—	—	—	—	3,213
Program direction	3,213	—	—	—	—	—	3,213
Review & approval	769	769	—	—	—	—	—

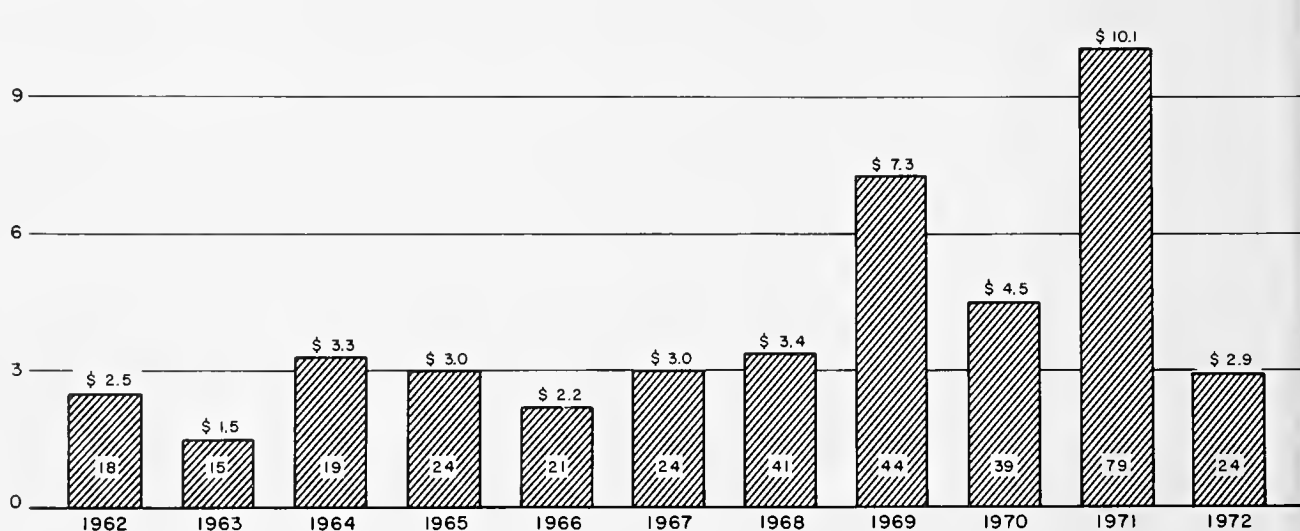
*From FY 1973 column of the FY 1974 President's Budget as revised 1/15/73.

[†]Funded under Medical Library Assistance Act, totaling \$6,677 thousand.

30 NIH SPECIAL FOREIGN CURRENCY PROGRAM (P.L. 480), FISCAL YEARS 1962-1972*
OBLIGATIONS IN MILLIONS OF DOLLARS (U.S. EQUIVALENT) AND NUMBER OF FUNDED PROJECTS

MILLIONS

\$ 12



* EXCLUDING NIMH AND DBS. INCLUDES RESEARCH AGREEMENTS ONLY.

NIH GRANTS AND AWARDS BY YEAR AND PROGRAM, FISCAL YEARS 1955-1972*
(Amounts in millions of dollars)

Fiscal year	Total amount [†]	Research grants [‡]		Research & education contracts		Research training grants		Research fellowships [§]		Research career program awards		Education grants [◇]		Construction grants	
		Number**	Amount	Number**	Amount	Number**	Amount	Number	Amount	Number**	Amount	Number**	Amount	Number**	Amount
1955	\$ 55.2	3,280	\$ 35.5	—	\$ —	557	\$ 10.3	1,383	\$ 3.7	—	\$ —	—	\$ —	—	\$ —
1956	64.7	3,475	40.4	—	—	699	13.5	1,817	4.4	—	—	—	—	—	—
1957	156.1	6,300	82.9	43	1.9	1,119	25.6	2,523	6.8	43	0.5	—	—	109	30.0
1958	191.3	7,134	101.3	176	11.0	1,367	31.9	2,657	7.5	86	1.0	—	—	177	30.2
1959	260.2	9,056	141.4	321	17.2	1,934	48.9	3,152	10.7	165	2.0	—	—	205	31.6
1960	354.7	11,571	198.8	286	23.1	2,626	73.7	4,029	14.9	226	3.0	—	—	171	30.8
1961	478.8	13,534	272.9	311	22.9	3,586	108.4	4,100	17.1	378	5.0	—	—	156	38.0
1962	600.3	14,975	372.1	419	28.1	3,697	115.9	3,389	19.6	690	10.0	—	—	112	36.8
1963	710.1	15,973	430.9	496	38.3	4,114	140.6	3,629	23.8	917	14.2	—	—	178	51.3
1964	815.9	16,020	497.9	597	42.7	4,346	165.9	3,708	24.7	1,162	19.8	—	—	129	53.9
1965	892.8	15,792	538.8	474	48.6	4,568	183.9	4,043	27.4	1,238	22.4	—	—	120	64.9
1966	1,042.2	15,686	601.0	590	53.3	4,731	205.7	4,480	29.9	1,353	25.7	—	—	178	100.5
1967	926.9	14,313	593.3	835	83.9	2,497	131.7	3,550	25.3	1,259	25.1	—	—	75	42.3
1968	1,274.7	13,400	626.0	1,088	96.2	2,474	133.8	3,721	28.3	1,272	26.8	3,260	144.8	110	179.7
1969	1,289.3	12,578	627.6	1,215	104.5	2,432	140.8	3,999	30.6	1,265	28.0	3,402	176.9	77	176.8
1970	1,250.0	11,475	602.2	1,260	105.3	2,207	130.3	2,955	23.6	1,181	27.7	3,613	206.0	40	151.1
1971	1,414.7	11,213	676.2	1,637	155.8	2,147	131.4	2,913	24.9	1,171	28.1	3,220	258.8	43	137.1
1972	1,767.2	11,729	805.0	2,167	272.2	2,058	138.1	2,420	22.3	1,158	27.8	4,755	433.1	43	65.9

*Includes NIMH through FY 1966 and BHME and NLM from FY 1968 on. Excludes scientific evaluation grants. †Medical library grants and former NIH community programs included in total column only. ‡Awards = obligations + NIMH contribution to GRS—scientific evaluation grants—Gorgas Memorial Laboratory grant. §Includes research traineeships, and part-time fellowships through FY 1961. ||Senior and special fellowships prior to FY 1962. ◇Includes scholarships and loans. **Counts supplemental awards separately.

NIH GRANTS AND AWARDS BY NIH COMPONENT AND PROGRAM, FISCAL YEAR 1972*
(Amounts in millions of dollars)

NIH component	Total amount [§]	Research grants		Research & education contracts		Research training grants		Research fellowships [†]		Research career program awards		Education grants [‡]		Construction grants	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$1,767.2	11,524	\$805.0	1,801	\$272.2	2,047	\$138.1	2,420	\$22.3	1,158	\$27.8	4,548	\$433.1	43	\$65.9
I/RD	1,248.4	11,412	797.8	1,408	221.2	2,024	136.1	2,264	21.5	1,156	27.7	—	—	17	44.1
NIAID	79.5	1,174	58.3	113	8.8	154	8.9	95	0.9	109	2.6	—	—	—	—
NIAMDD	120.8	2,009	93.6	80	6.5	275	15.0	215	2.1	148	3.7	—	—	—	—
NCI	300.9	1,504	120.6	522	115.7	216	16.6	197	1.9	85	2.0	—	—	17	44.1
NICHD	94.1	978	60.7	221	19.6	137	10.0	89	0.9	119	2.8	—	—	—	—
NIDR	32.5	271	20.7	46	5.3	90	5.2	64	0.8	26	0.6	—	—	—	—
NIEHS	16.5	140	12.1	15	1.0	35	3.1	12	0.1	8	0.2	—	—	—	—
NEI	30.2	469	23.3	9	2.2	48	3.0	107	1.3	18	0.4	—	—	—	—
NIGMS	154.7	1,212	92.8	9	2.7	470	43.5	879	7.0	383	8.6	—	—	—	—
NHLI	192.7	1,597	126.4	261	41.4	360	18.5	145	1.4	180	5.0	—	—	—	—
NINDS	89.6	1,339	63.8	74	8.8	229	12.0	275	3.2	80	1.8	—	—	—	—
DRR	128.5	719	125.4	17	2.6	10	0.4	12	0.1	—	—	—	—	—	—
Other [○]	8.4	—	—	41	6.6	—	—	174	1.9	—	—	—	—	—	—
8HME	508.0	66	6.3	325	45.2	12	0.9	149	0.7	2	**	4,548	433.1	26	21.9
DAHM	43.7	—	—	79	4.2	—	—	—	—	—	—	1,023	39.5	—	—
DDH	9.4	10	0.5	50	4.1	5	0.2	3	**	2	**	75	4.5	—	—
DMI	3.6	—	—	35	3.6	—	—	—	—	—	—	—	—	—	—
DNU	131.1	44	2.3	56	9.7	7	0.7	146	0.6	—	—	2,462	106.3	21	11.4
DPHPE	294.6	4	0.5	36	6.0	—	—	—	—	—	—	944	277.6	5	10.5
8u. Dir.	25.7	8	3.0	69	17.4	—	—	—	—	—	—	45	5.3	—	—
NLM	10.8 [§]	46	1.0	68	5.9	11	1.1	7	0.1	—	—	—	—	—	—

*Excludes scientific evaluation grants, \$4.4 million.

†Includes NINDS traineeships.

‡Includes scholarships and loans.

§Medical library grants, \$2.7 million, included in total column only.

||Includes general research support programs.

○CC, DBS, DCRT, DRS, FIC, DD, and joint.

**Less than \$50 thousand.

NIH GRANTS AND AWARDS BY GEOGRAPHIC LOCATION AND PROGRAM, FISCAL YEAR 1972*
(In thousands of dollars)

Geographic location	Total	Research grants	Research & education contracts	Research training grants	Research fellowships†	Research career program awards	Education grants†	Construction grants	Medical library grants
Total	\$1,767,213	\$805,041	\$272,240	\$138,097	\$22,321	\$27,751	\$433,145	\$65,906	\$2,712
Total U.S.	1,758,339	802,592	267,474	138,097	20,662	27,751	433,145	65,906	2,712
Alabama	30,815	10,071	6,563	1,195	160	241	9,094	3,444	46
Alaska	946	594	250	—	—	—	102	—	—
Arizona	7,872	3,055	705	480	65	43	3,133	390	3
Arkansas	3,798	1,295	21	176	20	49	2,194	—	44
California	209,305	117,317	29,924	18,004	3,674	2,554	31,687	6,027	117
Colorado	20,617	10,528	1,963	1,789	460	416	5,420	—	41
Connecticut	32,351	18,478	2,332	3,735	613	740	5,108	1,279	66
Delaware	813	359	27	—	1	—	321	104	1
Dist. of Col.	42,752	10,247	14,116	1,185	169	79	16,938	—	18
Florida	35,261	13,431	3,863	2,529	314	459	7,418	7,132	115
Georgia	20,911	9,037	2,074	1,459	124	379	7,791	—	47
Hawaii	6,071	2,548	1,422	94	83	42	1,877	—	5
Idaho	951	148	71	—	—	—	729	—	3
Illinois	77,946	31,537	12,410	8,182	767	1,103	23,787	28	132
Indiana	25,420	10,176	1,718	1,648	331	494	9,875	1,143	35
Iowa	20,534	8,483	826	1,638	129	462	8,995	—	1
Kansas	13,570	6,551	689	1,192	98	375	4,660	—	4
Kentucky	11,004	2,568	401	683	56	155	7,126	—	14
Louisiana	22,967	9,013	3,075	1,547	95	280	8,826	—	131

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS BY GEOGRAPHIC LOCATION AND PROGRAM, FISCAL YEAR 1972 (Cont.)*
(In thousands of dollars)

Geographic location	Total	Research grants	Research & education contracts	Research training grants	Research fellowships†	Research career program awards	Education grants‡	Construction grants	Medical library grants
Maine	\$ 3,270	\$ 1,830	\$ 717	\$ 116	\$ 12	\$ 69	\$ 491	\$ —	\$ 34
Maryland	79,892	23,574	38,447	5,258	1,922	1,152	9,456	—	84
Massachusetts	144,284	78,993	23,556	13,425	2,718	2,654	16,405	6,400	133
Michigan	50,073	20,616	5,843	3,721	474	588	18,538	200	94
Minnesota	44,669	20,250	5,880	4,617	520	604	12,672	—	127
Mississippi	7,872	2,348	983	476	15	98	3,012	932	8
Missouri	49,980	22,423	7,149	4,089	653	617	14,550	440	59
Montana	1,976	408	442	34	16	78	990	—	9
Nebraska	12,335	1,532	2,428	273	37	113	7,878	—	73
Nevada	1,019	51	24	—	—	—	940	—	4
New Hampshire	6,450	2,794	636	243	83	293	2,390	—	12
New Jersey	21,858	6,001	6,535	815	208	131	8,111	—	58
New Mexico	8,851	1,219	1,257	154	75	108	2,595	3,375	69
New York	220,790	126,606	22,650	17,736	2,204	3,409	40,241	7,664	280
North Carolina	53,872	23,126	7,867	6,007	441	1,541	8,984	5,881	26
North Dakota	3,842	318	800	45	—	45	2,352	277	5
Ohio	52,406	21,302	6,242	4,430	373	1,069	18,608	344	38
Oklahoma	11,501	3,269	853	649	47	249	4,537	1,836	61
Oregon	18,138	11,571	625	1,474	202	235	3,659	350	22
Pennsylvania	111,000	52,074	12,925	8,880	1,048	2,112	30,787	3,029	145
Rhode Island	4,707	2,787	430	297	53	—	1,135	—	4
South Carolina	8,892	1,211	1,520	116	43	23	3,645	2,313	21

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS BY GEOGRAPHIC LOCATION AND PROGRAM, FISCAL YEAR 1972 (Cont.)*
(In thousands of dollars)

Geographic location	Total	Research grants	Research & education contracts	Research training grants	Research fellowships†	Research career program awards	Education grants‡	Construction grants	Medical library grants
South Dakota	\$ 2,092	\$ 207	\$ 215	\$ 54	\$ —	\$ 23	\$ 1,513	\$ —	\$ 81
Tennessee	39,166	16,505	1,464	2,718	330	778	12,359	5,000	12
Texas	74,113	32,397	9,669	4,470	354	1,246	17,844	7,937	197
Utah	14,768	6,739	3,003	1,492	147	357	3,031	—	—
Vermont	4,741	2,694	276	327	45	121	1,200	—	78
Virginia	28,748	8,627	10,833	1,705	218	515	6,771	68	11
Washington	44,382	23,994	6,573	4,674	657	858	7,357	265	5
West Virginia	4,107	714	737	349	14	47	2,229	—	18
Wisconsin	36,718	19,742	3,702	3,493	586	670	8,413	—	111
Wyoming	593	121	72	—	10	24	320	47	—
Puerto Rico	7,310	1,114	671	426	—	55	5,033	—	11
Virgin Islands	19	—	—	—	—	—	19	—	—
Foreign	8,874	2,449	4,766	—	1,659	—	—	—	—

*Excludes scientific evaluation grants.

†Includes NINDS traineeships.

‡Includes scholarships and loans.

NIH GRANTS AND AWARDS BY KIND OF RECIPIENT INSTITUTION AND PROGRAM, FISCAL YEAR 1972*
(Amounts in thousands of dollars; branches of institutions counted separately)

Kind of recipient institution	All programs		Research grants			Research & education contracts			Medical library grants			Construction grants		
	Number of inst.	Amount	Number of inst.	Number	Amount	Number of inst.	Number	Amount	Number of inst.	Number	Amount	Number of inst.	Number	Amount
Total	2,568	\$1,767,213	814	11,524	\$805,041	658	1,801	\$272,240	359	379	\$2,712	43	43	\$65,906
Domestic	2,413	1,758,338	743	11,411	802,592	617	1,746	267,474	359	378	2,712	43	43	65,906
Higher education	1,077	1,401,568	374	9,584	654,013	186	923	130,981	84	100	1,614	34	34	40,083
Research institutes	191	129,134	112	606	59,318	108	305	55,038	6	6	43	5	5	9,971
Hospitals [§]	756	142,404	182	1,071	77,865	62	113	12,254	240	24 [^]	839	4	4	15,852
Grad. trg. centers	3	1,060	1	2	683	1	2	362	1	1	3	—	—	—
Patient centers	19	4,173	7	23	2,872	4	10	952	8	8	24	—	—	—
Soc. serv. agencies	2	19	—	—	—	—	—	—	—	—	—	—	—	—
Associations, etc.	129	19,863	39	75	3,580	78	107	14,373	9	10	69	—	—	—
Government units	77	7,587	15	35	2,993	43	59	3,458	8	8	19	—	—	—
Other domestic	159	52,530	13	15	1,269	135	227	50,057	3	4	101	—	—	—
Foreign	155	8,874	71	113	2,449	41	55	4,766	—	—	—	—	—	—

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS BY KIND OF RECIPIENT INSTITUTION AND PROGRAM, FISCAL YEAR 1972 (Cont.)*
(Amounts in thousands of dollars; branches of institutions counted separately)

Kind of recipient institution	Research training grants			Research fellowships†			Research career program awards			Education grants‡		
	Number of inst.	Number	Amount	Number of inst.	Number	Amount	Number of inst.	Number	Amount	Number of inst.	Number	Amount
Total	241	2,047	\$138,097	318	2,420	\$22,321	191	1,158	\$27,751	1,448	4,548	\$433,145
Domestic	241	2,047	138,097	242	2,280	20,662	191	1,158	27,751	1,448	4,548	433,145
Higher education	164	1,872	127,228	173	2,009	17,759	157	1,066	25,565	942	3,741	404,322
Research institutes	20	37	2,108	26	177	1,877	11	32	752	1	1	27
Hospitals§	48	127	8,229	38	89	969	20	56	1,350	428	691	25,047
Grad. trg. centers	—	—	—	1	1	12	—	—	—	—	—	—
Patient centers	2	2	72	2	2	20	1	1	21	2	2	213
Soc. serv. agencies	—	—	—	—	—	—	—	—	—	2	3	19
Associations, etc.	6	8	432	1	1	17	2	3	60	26	39	1,332
Government units	1	1	28	1	1	8	—	—	—	34	46	1,081
Other domestic	—	—	—	—	—	—	—	—	—	13	25	1,103
Foreign	—	—	—	76	140	1,659	—	—	—	—	—	—

*Excludes scientific evaluation grants. †Includes NINDS traineeships. Both *number* columns exclude supplements and supply allowances. ‡Includes grants for scholarships and loans.

§Independent hospitals and those owned by institutions not classified as "higher education" or "research institute."

NIH GRANTS AND AWARDS TO DOMESTIC INSTITUTIONS OF HIGHER EDUCATION BY MAJOR COMPONENT, FISCAL YEARS 1971-1972*
(Amounts in thousands of dollars)

Major component	Total		Research grants			Research training grants			Research fellowships†		
	1971	1972	1971	1972		1971	1972		1971	1972	
	Amount	Amount	Amount	Number	Amount	Amount	Number	Amount	Amount	Number	Amount
Total	\$843,069	\$866,266	\$545,264	9,584	\$654,013	\$121,380	1,872	\$127,228	\$21,317	2,009	\$17,759
Health professional components	658,466	658,258	408,120	6,645	490,632	96,305	1,558	101,460	11,865	1,089	10,987
Medical schools†	571,836	577,116	366,754	5,882	438,259	86,001	1,377	90,712	10,363	936	9,575
Dentistry	23,149	21,457	12,381	209	16,042	3,251	68	3,240	374	32	398
Public health	16,030	18,812	11,741	147	14,039	3,449	60	3,819	325	41	347
Hospitals‡	8,904	12,348	5,505	51	6,780	564	7	881	49	4	42
Nursing	6,088	11,858	1,188	36	1,819	766	5	470	70	14	68
Veterinary medicine	17,627	9,646	6,399	156	7,463	1,303	25	1,302	496	32	362
Pharmacy	8,037	6,207	3,738	142	4,949	913	14	960	140	25	130
Optometry	2,213	355	169	7	233	—	1	51	26	4	52
Other	4,603	1,456	244	15	1,048	60	1	24	22	1	13
Schools of A & S and graduate schools	125,023	137,199	90,894	2,194	107,946	18,466	234	19,134	7,166	742	5,302
Other components	59,558	69,808	46,250	745	55,435	6,609	80	6,633	2,287	178	1,471
Organized research units	11,912	19,388	9,628	132	14,330	1,882	13	1,448	183	28	241
Engineering	13,326	15,159	9,604	172	11,900	2,049	27	2,267	1,296	69	681
Agriculture	11,653	13,160	8,931	258	10,541	1,918	26	1,931	397	37	298
University-wide	7,539	9,093	7,539	115	7,553	—	—	—	—	—	—
Primate centers	6,358	6,865	6,339	21	6,847	—	—	—	1	—	—
Education	1,599	1,975	1,073	15	1,463	185	3	333	291	27	126
Other	7,174	4,170	3,136	32	2,801	575	11	654	119	17	126

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS TO DOMESTIC INSTITUTIONS OF HIGHER EDUCATION BY MAJOR COMPONENT, FISCAL YEARS 1971-1972* (Cont.)
(Amounts in thousands of dollars)

Major component	Research career program awards			Construction grants			Medical library grants		
	1971 Amount	1972		1971 Amount	1972		1971 Amount	1972	
		Number	Amount		Number	Amount		Number	Amount
Total	\$25,879	1,066	\$25,569	\$127,819	34	\$40,083	\$1,609	100	\$1,814
Health professional components	20,826	918	20,204	120,712	28	34,903	859	58	1,072
Medical schools†	19,284	748	18,593	88,889	8	19,075	545	34	902
Dentistry	577	25	575	6,550	1	1,193	17	5	9
Public health	512	24	607	—	—	—	2	—	—
Hospitals‡	54	2	55	2,719	1	4,582	14	2	8
Nursing	—	—	—	4,061	16	9,496	3	2	5
Veterinary medicine	242	9	200	9,173	1	291	13	2	28
Pharmacy	129	7	147	3,083	—	—	34	8	21
Optometry	—	—	—	1,989	—	—	30	2	19
Other	27	1	27	4,249	1	265	—	2	79
Schools of A & S and graduate schools	3,918	203	4,309	4,571	1	500	8	2	8
Other components	1,136	47	1,065	2,336	6	4,680	942	40	534
Organized research units	218	10	224	—	1	3,140	2	2	5
Engineering	377	15	311	—	—	—	—	—	—
Agriculture	408	18	390	—	—	—	—	—	—
University-wide	—	—	—	—	4	1,541	—	—	—
Primate centers	17	1	18	—	—	—	—	—	—
Education	60	2	53	—	—	—	—	—	—
Other	68	3	58	2,336	—	—	940	38	529

*Excludes research contracts and education grants. †Includes NINDS traineeships. ‡Includes schools of osteopathy, one primate center, two departments of public health, and schools comprising a complex of which one component is a school of medicine. §Hospitals owned by institutions of higher education, except those administered by medical schools.

NIH RESEARCH GRANTS BY KIND OF PROGRAM, FISCAL YEARS 1967-1972*
(Amounts in thousands of dollars)

Kind of program†	1967		1968		1969		1970		1971		1972	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	14,088	\$598,055	13,121	\$626,018	12,435	\$627,581	11,339	\$602,153	11,063	\$678,244	11,524	\$805,041
Research projects	13,068	391,919	12,024	386,842	11,274	384,725	10,175	359,156	9,844	390,267	10,138	454,001
Traditional	12,603	376,091	11,601	379,089	10,828	366,029	9,798	341,318	9,456	371,763	9,690	427,559
Chemotherapy and psychopharmacology	136	7,143	121	6,725	161	8,123	178	8,094	184	8,526	211	11,697
U.S.-Japan coop. med. sci. program	65	3,020	81	3,864	121	4,833	109	4,795	97	4,671	107	5,122
Computer tech. hlth. care demon.	—	—	—	—	—	—	—	—	—	—	8	2,998
Internat. ctrs. for med. res. & trg.	5	2,360	5	2,264	5	2,294	4	2,070	4	2,285	4	2,399
Nursing	38	1,579	39	1,802	40	2,011	31	1,887	26	1,622	37	2,115
Other	211	1,725	177	1,898	119	1,436	55	992	77	1,400	91	2,113
Program projects and centers	634	164,438	676	170,702	710	182,155	896	186,320	772	231,777	887	295,828
Research program projects	332	70,136	363	82,966	405	92,096	399	95,856	444	117,085	515	156,582
General clinical research centers	89	28,610	93	30,911	94	35,004	93	35,004	82	38,004	83	42,142
Categorical clinical research centers	81	24,899	71	21,217	61	19,255	56	19,072	52	22,503	59	24,910
Specialized centers of research	—	—	—	—	—	—	—	—	34	16,442	43	20,596
Animal resources	49	11,902	58	15,042	66	14,537	56	13,791	71	14,477	82	16,799
Biotechnology resources	62	10,758	50	10,529	46	10,494	41	9,967	41	9,365	44	10,356
Dental research institute program	5	2,996	5	3,000	5	3,000	5	3,400	7	4,700	8	6,600
Pharmacology-toxicology centers	8	2,608	11	3,253	9	3,969	10	4,374	11	4,656	13	6,288
Sickle cell centers	—	—	—	—	—	—	—	—	—	—	10	4,807
Environmental health centers	8	2,529	10	3,000	8	2,993	6	2,850	6	3,050	6	3,149
Outpatient clinical research program	—	—	14	784	16	807	18	1,106	24	1,495	24	1,699
General research support programs	384	51,700	422	59,874	451	60,700	468	57,877	447	54,200	499	55,212
General research support grants	294	41,700	311	48,174	330	48,200	344	45,802	326	43,423	339	44,298
Biomedical sciences support grants	93	6,000	102	7,500	110	7,500	113	7,125	112	6,777	117	6,914
Health sciences advancement awards	7	4,000	9	4,000	11	5,000	11	4,750	9	4,000	5	2,000
Minority schools biomedical support	—	—	—	—	—	—	—	—	—	—	38	2,000

*Excludes scientific evaluation grants. Includes BHME and NLM. *Number* columns do not count supplements paid from the same year's funds.

†Ranked by amount awarded in FY 1972.

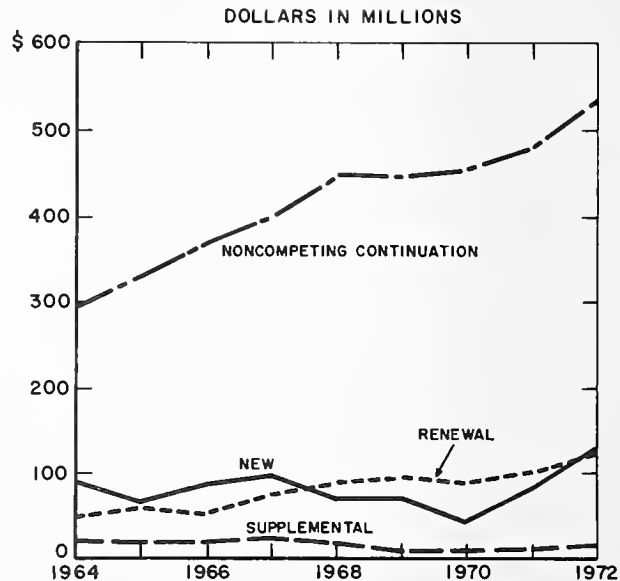
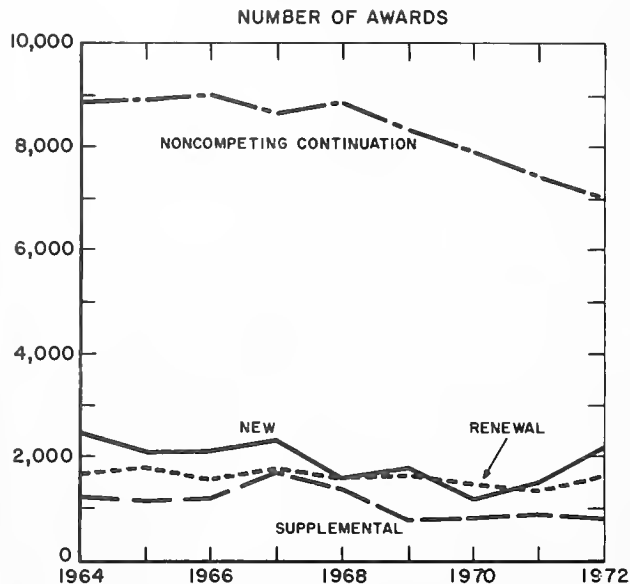
NIH RESEARCH GRANTS BY KIND OF PROGRAM AND TYPE OF GRANT, FISCAL YEAR 1972*
(Amounts in thousands of dollars)

41

Kind of program	All grants		Competing grants						Noncompeting grants			
			New		Renewal		Supplemental		Continuation		Supplemental	
	Number†	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	11,729	\$805,041	2,192	\$129,620	1,851	\$125,013	183	\$5,784	7,043	\$536,713	660	\$8,012
Research projects	10,314	454,001	2,031	84,316	1,533	83,382	156	3,027	6,998	277,785	596	6,494
Traditional	9,846	427,559	1,894	76,840	1,438	76,916	149	2,911	5,781	265,871	674	4,922
Chemotherapy and psychopharmacology	216	11,697	37	1,656	67	5,062	4	55	98	4,486	10	438
U.S.-Japan coop. med. sci. program	108	5,122	23	780	25	1,313	1	14	54	2,940	5	75
Computer tech. hith. care demon.	8	2,998	6	2,998	—	—	—	—	—	—	—	—
Internat. ctrs. for med. res. & trg.	4	2,399	—	—	—	—	—	—	4	2,399	—	—
Nursing	40	2,115	17	851	1	56	1	34	16	1,131	5	43
Other	92	2,113	52	1,191	2	35	1	13	35	858	2	16
Program projects and centers	916	295,828	181	46,204	118	41,631	27	2,757	546	203,718	64	2,518
Research program projects	537	158,582	104	27,593	64	19,076	21	2,393	309	108,074	39	1,446
General clinical research centers	83	42,142	3	1,815	12	4,897	—	—	58	35,431	—	—
Categorical clinical research centers	60	24,910	6	4,076	9	3,685	1	113	38	16,960	6	76
Specialized centers of research	44	20,596	8	3,574	—	—	1	141	34	16,563	1	318
Animal resources	85	16,799	24	2,434	12	2,361	2	72	42	11,919	5	13
Biotechnology resources	44	10,356	3	546	9	3,197	—	—	27	6,398	5	215
Dental research institute program	8	6,500	—	—	4	4,905	—	—	1	1,288	3	307
Pharmacology-toxicology	13	6,288	1	250	5	3,104	—	—	6	2,906	1	27
Sickle cell centers	10	4,807	10	4,807	—	—	—	—	—	—	—	—
Environmental health centers	6	3,149	—	—	1	318	—	—	5	2,831	—	—
Outpatient clinical research program	26	1,699	2	109	2	88	2	38	16	1,347	4	116
General research support programs	499	55,212	—	—	—	—	—	—	499†	55,212†	—	—
General research support grants	339	44,298	—	—	—	—	—	—	339	44,298	—	—
Biomedical sciences support grants	117	6,914	—	—	—	—	—	—	117	6,914	—	—
Health sciences advancement awards	5	2,000	—	—	—	—	—	—	5	2,000	—	—
Minority schools biomedical support	38	2,000	—	—	—	—	—	—	38	2,000	—	—

*Excludes sci. eval. grants. †Supplementals counted separately. ‡Includes 67 new grants for \$3,086 thousand which are noncompeting because not reviewed by national advisory councils.

NIH RESEARCH GRANTS BY TYPE FISCAL YEARS 1964-1972*



* EXCLUDES NIMH AND INCLUDES NIEHS, BHME, AND NLM FOR ALL YEARS.

NIH RESEARCH PROJECT GRANTS AND RESEARCH CONTRACTS BY SCIENTIFIC DISCIPLINE OR FIELD, FISCAL YEARS 1971 AND 1972*
(Amounts in thousands of dollars)

43

Scientific discipline or field	Fiscal year 1971						Fiscal year 1972					
	Research grants			Research & education contracts			Research grants			Research & education contracts		
	Number	Amount	Percent	Number	Amount	Percent	Number	Amount	Percent	Number	Amount	Percent
Total	9,844	\$390,267	100.0%	1,353	\$165,797	100.0%	10,138	\$454,001	100.0%	1,801	\$272,240	100.0%
Anatomy	231	7,034	1.8	12	655	.4	214	7,759	1.7	2	113	†
Animal production & facilities	3	156	†	41	3,595	2.3	7	589	.1	39	6,252	2.3
Biochemistry	2,112	80,062	20.5	72	9,169	5.9	2,187	95,710	21.1	109	12,954	4.8
Bioengineering & instrumentation	157	8,158	2.1	123	11,911	7.6	179	10,245	2.3	114	14,492	5.3
Biological resources	3	167	†	81	8,080	6.2	4	226	†	83	13,386	4.9
Biology	89	3,691	.9	3	367	.2	109	4,594	1.0	1	289	.1
Cell biology	226	9,180	2.4	21	2,579	1.7	263	11,600	2.6	28	2,312	.8
Chemistry	874	33,972	8.7	58	5,094	3.3	873	39,262	8.6	84	8,980	3.3
Genetics	432	19,613	5.0	17	4,282	2.7	485	23,486	5.2	24	6,555	2.4
Health sciences & services	44	2,607	.7	62	5,168	3.3	43	4,010	.9	250	41,556	15.3
Hematology	190	7,628	2.0	7	526	.3	218	10,067	2.2	9	830	.3
Info. & communication sciences	62	2,914	.7	169	13,847	8.9	67	4,776	1.1	196	17,607	6.6
Immunology	637	22,448	5.8	83	7,905	5.1	590	27,933	6.2	131	17,097	6.3
Mathematics	74	3,740	1.0	67	10,911	7.0	98	6,686	1.3	63	6,709	2.6
Microbiology & parasitology	604	25,472	6.5	72	13,467	8.6	609	27,860	6.1	89	26,950	9.6
Nutrition	203	7,636	2.0	12	2,090	1.3	195	8,188	1.8	14	2,728	1.0
Oncology	42	2,299	.6	17	3,432	2.2	53	3,056	.7	17	4,174	1.6
Pathology	430	23,056	5.9	22	1,965	1.3	429	20,586	4.6	28	3,486	1.3
Pharmacology	615	18,184	4.7	151	24,503	15.7	543	22,581	5.0	188	40,366	14.8
Physiology	2,124	76,255	19.5	62	9,022	5.1	1,974	81,616	18.0	141	19,806	7.3
Psychology	192	7,483	1.9	9	908	.6	206	9,063	1.8	9	693	.3
Reproduction, growth, & development	283	9,330	2.4	101	6,759	4.3	328	12,901	2.8	109	11,216	4.1
Social sciences	54	2,809	.7	32	2,327	1.5	101	4,541	1.0	17	6,313	2.3
Transplantation	97	4,298	1.1	15	1,180	.8	101	6,056	1.1	9	1,097	.4
Other	278	12,073	3.1	45	7,055	4.5	262	13,607	3.0	46	7,280	2.7

Excludes scientific evaluation grants, program project and center grants, and general research support programs, none of which are coded for scientific discipline or field.

† Less than 0.05 percent.

AWARD RATES FOR NIH NEW RESEARCH GRANT APPLICATIONS RECOMMENDED BY COUNCILS FOR APPROVAL,
FISCAL YEARS 1968, 1970, AND 1972

NIH component	Number reviewed by councils*			Council-recommended rates†						Award rates					
				Number			Amount†			Number			Amount†		
	1968	1970	1972	1968	1970	1972	1968	1970	1972	1968	1970	1972	1968	1970	1972
Total	5,063	4,984	6,460	52.8%	56.0%	61.5%	42.3%	42.1%	43.0%	57.4%	42.2%	53.8%	63.9%	42.3%	61.2%
I/RD	4,920	4,864	6,330	53.0	56.7	62.1	42.4	42.7	43.3	56.7	41.9	53.4	63.7	42.0	61.0
NIAID	557	527	580	59.1	66.6	71.4	52.3	55.7	55.6	58.1	48.7	42.5	60.2	47.3	47.7
NIAMDD	911	867	877	56.8	61.0	66.8	46.7	46.7	49.7	57.8	45.6	48.0	61.8	43.0	49.4
NCI	503	501	1,001	49.9	53.9	62.2	45.2	46.0	46.1	68.9	38.5	69.5	71.9	44.1	76.1
NIDR	179	157	201	43.0	35.7	54.7	33.0	30.6	44.8	64.9	5.4	65.5	60.5	4.7	65.5
DEHS/NIEHS	77	75	175	39.0	41.3	50.9	23.9	33.6	37.6	53.3	32.3	37.1	58.1	26.5	39.5
NEI	0	129	201	0.0	72.1	73.1	0.0	56.7	59.2	0.0	41.9	51.7	0.0	36.6	54.3
NIGMS	784	829	843	59.9	67.3	72.5	45.5	49.3	48.9	29.1	12.9	48.8	51.9	21.8	55.7
NICHD	638	658	964	45.0	47.0	58.3	31.2	36.8	44.0	54.0	44.3	53.0	63.0	44.4	55.4
NHI/NHLI	709	592	848	49.2	49.5	52.8	37.2	34.0	29.3	57.0	67.2	57.1	65.1	60.9	72.2
NINDS	516	480	565	53.0	50.4	50.4	42.3	34.9	38.1	87.2	72.3	49.1	87.3	68.0	55.7
DRFR/DRR	46	49	75	54.3	51.0	70.7	62.1	30.0	64.5	80.0	20.0	66.0	64.3	35.3	58.4
8HME	75	63	65	45.3	28.6	35.4	43.1	20.8	20.9	79.4	83.3	95.7	66.9	75.6	97.1
DAHM	0	2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOH	24	17	16	41.7	29.4	25.0	40.0	13.7	11.5	50.0	80.0	75.0	32.1	73.4	67.8
Su. Dir.	0	0	1	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	100.0
DNU	47	24	46	48.9	41.7	39.1	45.0	41.8	22.7	91.3	100.0	100.0	90.9	97.9	100.7
DPM/DPHPE	4	20	2	25.0	15.0	0.0	49.4	13.9	0.0	100.0	33.3	0.0	100.0	23.0	0.0
NLM	68	57	65	45.6	29.8	30.8	34.2	18.9	22.3	90.3	47.1	75.0	85.9	49.5	56.1

*Excludes those withdrawn prior to council review and those with budget periods of 24 months or more.

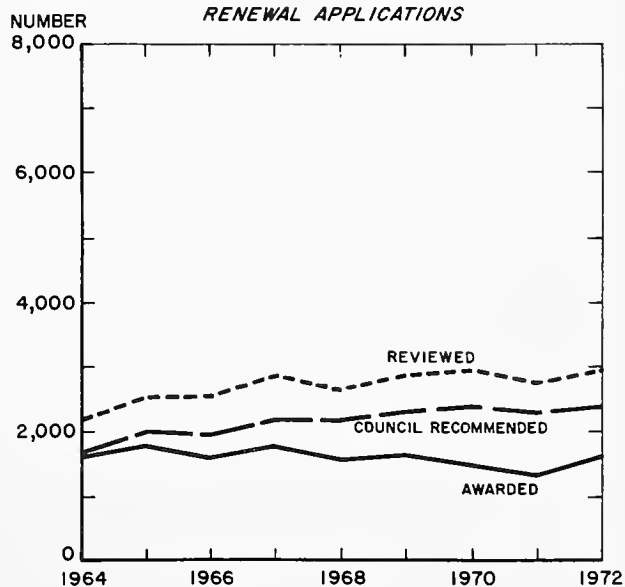
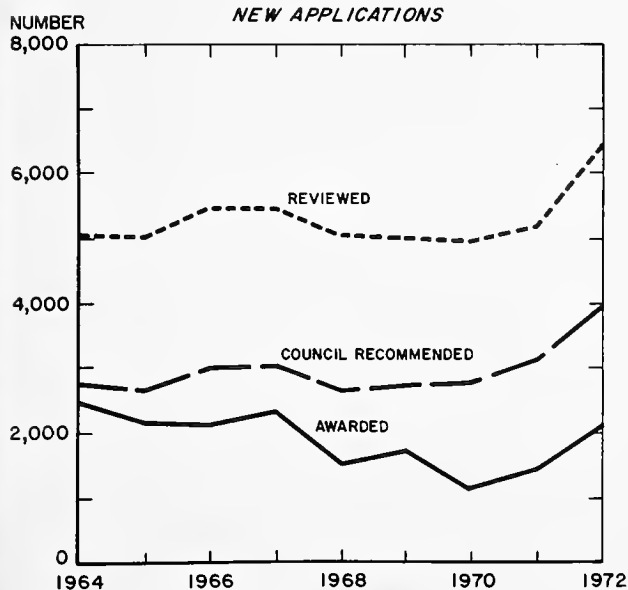
†Includes those withdrawn subsequent to council review.

‡Direct cost only.

NIH COMPETING RESEARCH GRANT APPLICATIONS REVIEWED, RECOMMENDED FOR APPROVAL, AND AWARDED

FISCAL YEARS 1964-1972*

45



*EXCLUDES NIMH AND INCLUDES NIEHS, BHME, AND NLM FOR ALL YEARS.

NIH RESEARCH TRAINING GRANTS AND AWARDS, AND EDUCATION GRANTS, BY KIND OF PROGRAM, FISCAL YEARS 1968-1972*
(Amounts in thousands of dollars)

Kind of program	1968		1969		1970		1971		1972	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	—	\$333,735	—	\$376,309	—	\$387,573	—	\$443,157	—	\$621,314
Research training grants	2,430	133,766	2,400	140,798	2,191	130,315	2,134	131,379	2,047	138,097
Research fellowships and traineeships	3,721	20,344	3,999	30,638	2,955	23,562	2,913	24,925	2,420	22,321
Postdoctoral fellowships	1,238	10,342	1,406	11,062	977	7,963	1,228	10,002	1,205	9,808
Predoctoral fellowships	1,569	7,891	1,513	7,489	1,044	5,125	722	3,484	304	1,342
Special fellowships	712	7,808	846	9,322	708	7,805	767	9,103	752	8,020
Traineeships	202	2,302	234	2,765	226	2,668	196	2,335	159	2,151
Research career program awards	1,267	26,808	1,266	27,962	1,180	27,663	1,169	28,063	1,158	27,751
Research career development	1,032	21,103	853	19,195	668	16,505	493	12,950	271	7,394
Modified research career development	65	1,154	247	4,367	366	6,973	532	10,830	723	15,276
Research career	170	4,551	155	4,400	146	4,185	140	4,084	133	3,955
Academic and clinical investigator career	—	—	—	—	—	—	4	199	31	1,126
Education grants	3,240	144,817	3,375	176,911	3,593	206,033	3,220	258,790	4,548	433,145
Student assistance	2,102	73,277	2,134	80,065	2,514	74,087	1,964	96,065	1,995	109,753
Traineeships	705	18,910	615	19,857	542	19,639	694	21,753	633	23,782
Loans and scholarships	1,397	54,367	1,519	60,208	1,972	54,448	1,270	74,312	1,362	85,971
Formula and project grants	1,138	71,540	1,241	96,846	1,079	131,945	1,256	162,726	2,553	323,391
Health professions—formula	170	32,161	172	33,636	261	46,500	267	46,613	263	157,700
Health professions—project	48	10,132	103	32,364	141	54,300	158	77,200	375	73,360
Nursing—formula	382	3,000	393	3,000	—	—	—	—	877	31,500
Nursing—project	99	3,999	90	4,000	151	6,991	227	11,350	370	22,894
Allied health—formula	245	13,750	273	14,304	318	14,258	351	14,710	17	5,509
Allied health—project	140	5,299	157	6,142	155	6,147	184	9,001	515	22,977
Dental health—project	54	3,200	53	3,400	53	3,750	69	3,851	74	4,451
Bureau director—project	—	—	—	—	—	—	—	—	42	5,000

*Excludes scientific evaluation grants.

NIH RESEARCH TRAINING GRANTS AND AWARDS BY FIELD OF INTEREST, FISCAL YEAR 1972*
(Amounts in thousands of dollars)

Field of interest	Research training grants				Research fellowships†				Research career program awards‡		Number of trainees under GRS programs‡	
	Number	Amount	Number of trainees‡		Number§			Amount	Number§	Amount	Post-doctoral	Pre-doctoral
			Post-doctoral	Pre-doctoral	Post-doctoral	Pre-doctoral	Special††					
Total	2,047	\$138,097	6,818 	8,608◇	1,384	304	762	\$22,321	1,168	\$27,761	78**	2,174††
Health-related professions & activities	1,885	124,716	6,446	8,326	1,238	235	616	18,834	1,031	26,228	74	2,059
General med. & biological sciences	708	53,185	1,783	8,363	1,052	218	328	14,052	714	16,441	44	739
Anatomy	36	2,318	94	299	42	6	13	578	22	478	2	96
Biochemistry	61	6,642	186	1,304	327	54	82	3,892	153	3,670	4	150
Biophysics	26	2,580	74	497	70	3	23	866	60	1,240	—	5
Microbiology	137	8,428	250	1,114	137	36	49	2,021	128	2,813	6	103
Pathology	85	6,412	312	150	26	1	17	499	38	855	8	75
Pharmacology	67	4,881	202	589	56	18	13	687	42	877	4	88
Physiology	106	8,629	248	623	164	24	59	2,216	78	1,854	10	123
Genetics	45	4,157	125	436	70	17	31	1,087	91	2,065	1	21
Nutrition	5	376	12	88	5	1	4	102	2	62	—	5
Cell biology	8	720	29	136	76	31	16	1,007	48	1,065	5	8
Biology	52	3,710	109	415	45	13	11	596	22	471	3	45
Other	71	6,233	122	892	34	15	10	500	31	880	1	18
Clinical medicine	1,047	63,841	3,471	1,180	168	2	178	4,264	345	9,048	17	1,121
Internal medicine	633	29,363	1,486	465	47	—	106	1,720	241	8,441	12	732
Pediatrics	68	3,262	221	24	7	1	14	233	35	827	2	82
Obstetrics-gynecology	7	293	29	6	1	—	—	13	8	182	—	28
Radiology	56	5,035	324	70	26	1	15	583	2	56	—	18
Surgery	107	8,494	401	52	8	—	5	182	8	221	1	127
Otorhinolaryngology	53	3,252	278	27	6	—	1	96	6	170	—	—
Ophthalmology	41	2,711	202	8	6	—	31	592	8	177	—	16
Anesthesiology	11	821	144	1	1	—	1	26	10	273	1	8
Neurology	94	4,673	344	6	48	—	3	686	20	470	—	27
Other	95	7,837	42	530	7	—	3	123	8	131	1	72

See footnotes at end of table.

(Continued)

NIH RESEARCH TRAINING GRANTS AND AWARDS BY FIELD OF INTEREST, FISCAL YEAR 1972 (Cont.)*
(Amounts in thousands of dollars)

Field of interest	Research training grants				Research fellowships†				Research career program awards‡		Number of trainees under GRS programs‡	
	Number	Amount	Number of trainees‡		Number§			Amount	Number§	Amount	Post-doctoral	Pre-doctoral
			Post-doctoral	Pre-doctoral	Post-doctoral	Pre-doctoral	Special††					
Clinical dentistry	54	\$2,529	48	28	10	—	3	\$ 162	7	\$148	1	178
Other health-related fields	76	6,161	164	745	16	14	105	1,366	26	591	12	21
Nursing	6	531	—	9	—	—	30	148	—	—	—	—
Engineering, health-related	18	1,555	51	347	10	6	39	721	10	221	2	1
Veterinary medicine	14	659	43	7	3	—	14	229	1	23	7	3
Pharmacy	—	—	—	—	—	7	1	33	—	—	—	6
Biostatistics	15	1,228	25	195	2	1	5	107	7	164	—	2
Epidemiology	19	908	40	48	—	—	7	52	6	158	3	6
Other	4	280	5	138	1	—	9	76	1	25	—	3
Community health fields	2	25	8	42	—	—	3	20	3	73	1	28
Environmental health fields	30	2,641	33	164	6	—	5	68	7	170	—	7
Psychology	59	4,257	75	490	19	—	42	420	23	554	—	49
Behavioral sciences	28	2,527	27	439	3	4	59	304	2	53	—	2
Sociology	13	943	15	179	—	3	37	176	1	23	—	1
Anthropology	6	746	12	220	1	—	14	61	1	30	—	1
Other	9	838	—	40	2	1	8	67	—	—	—	—
Math., physical sciences, engr., other	44	3,932	29	147	100	65	29	1,670	32	674	3	29
Chemistry	12	751	27	118	87	65	20	1,235	17	344	3	19
Other fields	32	3,181	2	29	13	1	8	435	15	330	—	10

*Excludes scientific evaluation grants. †Includes NINDS traineeships. ‡Training in FY 1972 but paid from FY 1971 funds. §Represents number of awards, not number of persons.

||Includes 4,036 full-time. ○Includes 6,368 full-time. **Includes 17 full-time. ††Includes 151 full-time. ‡‡Includes 569 postdoctoral awards.

**NUMBER OF NIH TRAINEES UNDER SELECTED PROGRAMS, AND RESEARCH FELLOWSHIPS AND
RESEARCH CAREER PROGRAM AWARDS, BY NIH COMPONENT, FISCAL YEAR 1972**

NIH component	Grand total	Total			Trainees under res. training grants* †		Research fellowships ‡ §			Research career program awards §	Trainees under GRS programs*	
		Post- doctoral	Pre- doctoral	Special	Post- doctoral	Pre- doctoral	Post- doctoral	Pre- doctoral	Special ◇	Post- doctoral	Post- doctoral	Pre- doctoral
Total	21,056	8,218	12,086	752	5,618	9,608	1,364	304	752	1,158	78	2,174
I/RD	20,623	8,198	11,826	599	5,602	9,349	1,362	303	599	1,156	78	2,174
NIAID	1,385	576	780	29	401	780	66	—	29	109	—	—
NIAMDD	1,458	1,114	244	100	851	244	115	—	100	148	—	—
NCI	1,538	766	709	63	547	709	134	—	63	85	—	—
NICHD	1,386	504	841	41	337	841	48	—	41	119	—	—
NIDR	670	304	335	31	248	332	30	3	31	26	—	—
NIEHS	484	97	382	5	82	382	7	—	5	8	—	—
NEI	335	274	8	53	202	8	54	—	53	18	—	—
NIGMS	7,724	1,989	5,552	183	1,210	5,252	396	300	183	383	—	—
NHLI	1,748	1,135	548	65	875	548	80	—	65	180	—	—
NINDS	1,424	1,149	252	23	817	252	252	—	23	80	—	—
DRR	2,297	116	2,175	6	32	1	6	—	6	—	78	2,174
FIC	174	174	—	—	—	—	174	—	—	—	—	—
8HME	307	14	145	148	12	144	—	1	148	2	—	—
DDH	55	14	39	2	12	38	—	1	2	2	—	—
DNU	252	—	106	146	—	106	—	—	146	—	—	—
NLM	126	6	115	5	4	115	2	—	5	—	—	—

*Training in FY 1972 but paid from FY 1971 funds. †Includes 10,404 full-time and 4,822 part-time. ‡Includes NINDS traineeships. §Represents number of awards, not number of persons. || Includes 168 full-time and 2,084 part-time. ◇Includes 569 postdoctoral awards.

NUMBER OF I/RD AND NLM FELLOWSHIPS AND FULL-TIME TRAINEES,* BY NIH COMPONENT AND ACADEMIC LEVEL, FISCAL YEARS 1968-1972†

NIH component	1968			1969			1970			1971			1972		
	Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral	
		Pro-fessional†	Aca-demic‡		Pro-fessional†	Aca-demic‡		Pro-fessional†	Aca-demic‡		Pro-fessional†	Aca-demic‡		Pro-fessional†	Aca-demic‡
RESEARCH FELLOWSHIPS															
Total	1,820	919	1,059	1,686	959	1,303	1,114	720	976	788	675	1,259	350	648	1,273
NIAID	—	57	91	1	63	104	2	54	72	1	30	65	—	34	61
NIAMDD	3	155	148	2	137	167	2	85	114	1	97	124	2	89	124
NCI	2	55	154	1	67	168	1	40	139	—	36	155	—	34	163
NICHD	6	56	74	9	54	110	6	25	55	4	28	68	2	31	56
NIDR	13	59	5	19	54	4	7	49	9	5	51	12	4	45	15
NIHHS	2	—	4	10	1	5	5	5	5	2	3	7	2	2	8
NEI	—	—	—	—	—	—	—	21	17	—	29	36	6	38	63
NIGMS	1,585	72	357	1,527	81	472	1,079	58	303	765	70	523	328	49	502
NHLI	9	129	56	10	118	92	8	97	75	6	65	86	3	51	91
NINDS	—	209	116	2	231	140	1	160	154	2	150	147	2	142	131
DRR	—	16	—	—	14	1	—	13	—	1	11	—	1	9	2
FIC	—	109	50	4	137	39	3	113	29	1	104	33	—	122	52
NLM	—	2	4	—	2	3	—	—	4	—	1	3	—	2	5
TRAINEES UNDER TRAINING GRANTS															
Total	6,803	3,139	648	8,158	3,229	856	8,486	3,152	769	8,132	3,019	894	6,272	3,039	985
NIAID	471	187	55	469	186	71	480	147	83	444	165	89	489	173	104
NIAMDD	55	610	28	41	627	53	52	607	74	52	612	102	53	613	103
NCI	185	188	69	184	202	73	174	220	77	205	238	108	220	273	102
NICHD	501	149	73	569	151	90	645	123	109	568	111	123	595	101	137
NIDR	159	167	11	142	166	14	135	164	13	132	172	17	139	161	16
NIHHS	275	5	13	286	6	15	305	5	18	275	14	24	269	15	32
NEI	—	—	—	—	—	—	5	150	3	1	109	2	1	68	4
NIGMS	3,775	521	201	4,052	617	217	4,270	606	254	4,093	558	276	4,142	523	303
NHLI	238	578	45	227	562	55	246	519	70	198	509	77	179	577	100
NINDS	91	711	51	99	688	64	98	583	63	97	509	76	90	508	82
DRR	—	17	—	—	19	—	—	22	—	—	22	—	—	25	—
NLM	53	6	—	87	5	4	75	6	5	67	—	—	95	2	2

*In training 100 percent of the time for at least 8 months.

†Fellows are funded in the FY shown; the bulk of trainees, in the previous year.

‡Holders of the M.D. or equivalent

professional doctorate, including those holding both professional and academic degrees.

§Holders of the Ph.D. or equivalent academic doctorate.

Type of program	Total	Medicine & osteo. med.	Dentistry	Optometry	Pharmacy	Podiatric medicine	Veterinary medicine	Nursing	Allied health	Public health
NUMBER OF AWARDS										
Total	5,122*†	675	309†	48	179	21	44	2,725	634	514
Construction	26	4	1	0	0	0	0	15	0	0
Formula grants	1,181	127	60	12	74	5	15	871◇	0	17
Project grants	1,388	269	121	21	29	9	9	370	413	106
Loans &/or scholarships	1,362	115	52	12	74	5	18	1,086	0	0
Number of students (est):										
Loans	(57,000)	(13,318)	(5,867)	(1,171)	(4,500)	(497)	(1,549)	(30,000)	(0)	(0)
Scholarships	(39,865)	(9,279)	(3,888)	(755)	(5,015)	(278)	(1,152)	(19,500)	(0)	(0)
Research grants	86	4	10	0	0	0	0	44	0	0
Research training	12	0	5	0	0	0	0	7	0	0
Fellowships	149	0	3	0	0	0	0	149	0	0
Traineeships	833	7	1	0	1	0	0	129	112	383
Contracts	325	48	54	1	1	2	2	56	109	9

AMOUNT (in thousands of dollars)

Total	\$507,894	\$196,823	\$66,444	\$5,835	\$26,549	\$3,571	\$10,375	\$128,659	\$30,755	\$19,032
Construction	21,853	9,273	1,183	0	0	0	0	7,093	0	0
Formula grants	197,898	99,710	38,100	2,171	15,644	956	6,429	31,377◇	0	5,509
Project grants	125,372†	54,056	13,700†	1,808	3,169	1,944	1,362	22,893	18,822	4,540
Loans	50,985	19,919	8,836	1,203	3,252	433	1,857	20,885	0	0
Scholarships	34,887	7,589	2,893	517	3,431	203	888	19,488	0	0
Research grants	6,261	483	468	0	0	0	0	2,302	0	0
Research training	971	0	171	0	0	0	0	700	0	0
Fellowships	865	0	36	0	0	0	0	649	0	0
Traineeships	23,782	757	205	0	38	0	0	11,482	2,910	6,390
Contracts	45,167	6,126	4,997	136	15	35	59	9,892	9,023	593

*Includes 75 multidisciplinary awards not shown in other columns: 5 construction grants, 19 project grants, 6 research grants, and 43 research contracts. †Includes 2 research career development awards.

†Includes also DAU, TEAM, DCE. ||Includes multidisciplinary awards not shown in other columns: construction \$4,294 thousand, project grants \$3,076 thousand, research grants \$2,998 thousand, and research contracts \$12,481 thousand. ◇Excludes 8 unfunded awards totaling \$123 thousand shown in other tables.

NUMBER OF STUDENTS AWARDED LOANS AND SCHOLARSHIPS UNDER BHME PROGRAMS,
BY TYPE OF SCHOOL AND TYPE OF PROGRAM, FISCAL YEARS 1965-1972*

Fiscal year	Total†	Medicine	Osteopathic medicine	Dentistry	Optometry	Pharmacy	Podiatric medicine	Veterinary medicine	Nurse training
<i>LOAN PROGRAM</i>									
1965	15,199	7,186	614	3,367	387	—	—	—	3,645
1966	26,976	9,475	726	4,472	563	—	—	—	11,740
1967	37,386	11,303	93	5,530	656	1,584	158	—	17,218
1968	44,693	12,484	977	5,944	745	2,105	211	797	21,430
1969	50,060	12,808	1,050	6,375	853	2,541	303	1,075	25,055
1970	50,064	11,015	860	5,494	899	3,194	253	1,285	27,064
1971	51,856	10,832	1,064	5,352	1,030	3,875	442	1,361	27,900
1972§	57,000	12,196	1,120	5,967	1,171	4,500	497	1,549	30,000
<i>SCHOLARSHIP PROGRAM</i>									
1967	3,824	1,635	147	799	144	1,040	59	—	—
1968	16,593	3,810	316	1,869	362	2,326	137	—	7,773†
1969	26,522	6,018	564	3,135	609	3,608	218	—	12,370†
1970	35,665	8,426	774	4,092	802	4,265	343	1,107	15,856
1971	45,311	8,393	882	4,046	869	4,981	334	1,151	24,655
1972§	39,865	8,431	848	3,888	755	5,015	276	1,152	19,500

*No students received scholarships before FY 1967.

†Students who received more than one award are recounted.

‡Educational opportunity grants.

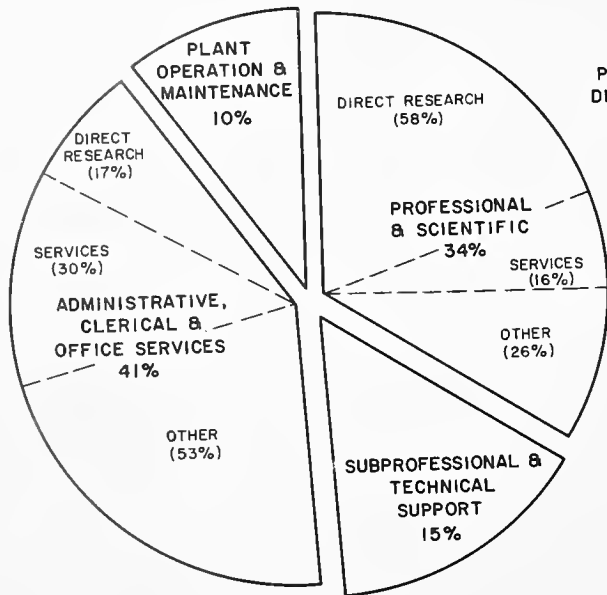
§Estimated.

**INCREASED NUMBER OF FIRST-YEAR STUDENT PLACES ASSURED BY SCHOOLS AWARDED BHME
CONSTRUCTION GRANTS, BY TYPE OF SCHOOL, FISCAL YEARS 1965-1972**

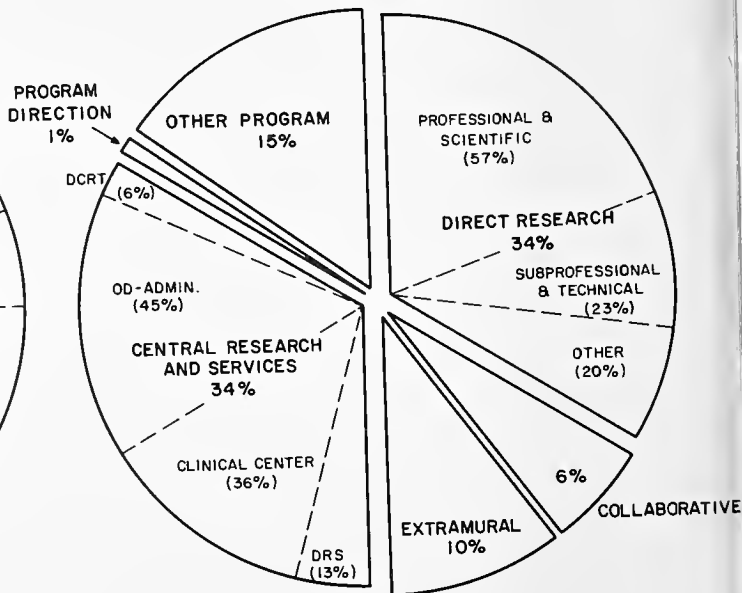
Fiscal year	Total places	Medicine	Osteopathic medicine	Dentistry	Optometry	Pharmacy	Podiatric medicine	Veterinary medicine	Public health	Nursing
Total	13,865	2,851	23	1,195	181	556	88	215	465	8,291
1965	1,581	534	0	270	36	0	0	0	191	550
1966	1,549	401	0	111	41	157	0	0	35	800
1967	2,809	404	5	252	0	150	0	0	126	1,872
1968	1,775	340	12	201	80	60	0	5	5	1,072
1969	1,975	284	0	61	0	20	0	119	108	1,383
1970	1,413	328	6	148	0	130	0	46	0	755
1971	1,294	444	0	80	24	39	88	45	0	574
1972	1,469	112	0	72	0	0	0	0	0	1,285

OCCUPATIONAL AND FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL 12,296 SCIENTIFIC AND SUPPORTIVE WORKERS, NOVEMBER 30, 1972

OCCUPATIONAL



FUNCTIONAL



OCCUPATIONAL DISTRIBUTION OF NIH PERSONNEL — November 30, 1972*

	Total NIH	OD-NIH	Service divisions†	I/RDs	8HME	NLM
Total	12,296	118	2,903	7,828	859	488
Professional and scientific	4,156	22	246	3,476	264	148
Direct research	2,392	—	—	2,165	102	125
Services	685	—	137	548	—	—
Extramural activities†	332	—	96	181	44	11
Other program staff	747	22	13	582	118	12
Subprofessional and technical support	1,826	—	408	1,333	12	73
Direct research	967	—	—	882	12	73
Services	750	—	403	347	—	—
Extramural activities†	6	—	4	2	—	—
Other program staff	103	—	1	102	—	—
Administrative, clerical, and office services	5,015	96	1,422	2,648	583	266
Direct research	834	—	1	593	110	130
Services	1,514	—	1,064	450	—	—
Extramural activities†	909	—	301	508	74	26
Other program staff	1,758	96	56	1,097	399	110
Plant operation and maintenance	1,299	—	827	471	—	1
Direct research	27	—	—	27	—	—
Services	1,245	—	827	418	—	—
Extramural activities†	—	—	—	—	—	—
Other programs staff	27	—	—	26	—	1

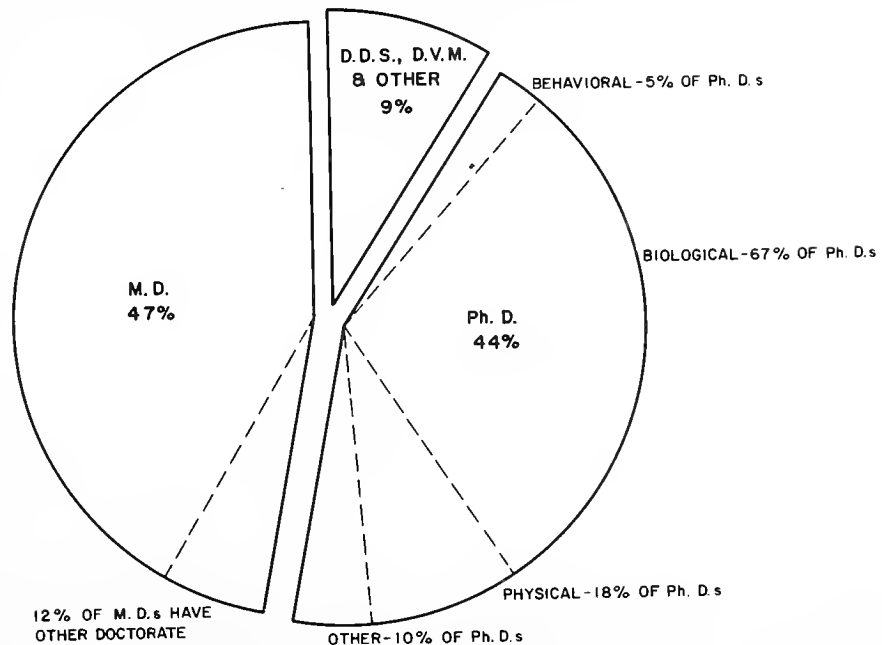
*Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field. †ODA, DRG, and DRS.

†DRG, DRR, and NIGMS except their ODs, which are in "Other program staff."

Total staff 12,296						
Direct research			4,220	Central services		4,194
Professional and scientific			2,392	Division of Research Services		530
Doctorate			1,472	Professional and scientific		81
Nondoctorate			920	Other		449
Subprofessional and technical			967	Clinical Center		1,517
Other			861	Professional and scientific †		487
				Other		1,030
Collaborative studies			667	OD—Administration		1,901
Professional and scientific			309	Professional and scientific		56
Doctorate			170	Other		1,845
Nondoctorate			139	Div. of Computer Res. & Technology		246
Other			358	Professional and scientific		61
				Other		185
Extramural programs †			1,247	Program direction (OD-NIH)		118
Professional and scientific			332	Professional and scientific		22
Doctorate			227	Other		96
Nondoctorate			105			
Other			915	Other program staff		1,850
				Professional and scientific		416
				Other		1,434

*Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field. † Includes all nurses. ‡ Includes all DRG, DRR, and NIGMS except their ODs, which are in "Other program staff."

NIH PROFESSIONAL STAFF
2,319 PROFESSIONALS WITH DOCTORATE DEGREES, NOVEMBER 30, 1972



NIH PROFESSIONAL STAFF WITH DOCTORATE DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE*

November 30, 1972

Type of doctorate		Distribution of Ph.D.s by discipline			
Total with doctorate	2,319	Biological	679	Behavioral	55
M.D.	1,079	Biochemistry	212	Psychology	39
(M.D.s with other doctorates)	(127)	Microbiology	97	Social sciences	16
Ph.D.	1,021	Physiology	78	Physical	188
Biological	679	Biology	60	Chemistry	172
Behavioral	55	Pharmacology	46	Physics	16
Physical	188	Zoology	38	Other	95
Other	99	Bacteriology	35	Engineering	39
D.D.S.	100	Biophysics	20	Statistics	21
D.V.M.	63	Genetics	19	Mathematics	10
D.Sc.	26	Entomology	17	Computer science	3
D.M.D.	8	Parasitology	8	Education	3
D.Ed.	5	Anatomy	7	History	3
D.Pharm.	3	Plant pathology	5	Language	3
D.P.H.	3	Speech pathology	5	Pharmacy	3
D.M.Sc.	2	Virology	5	Public health	3
Eng.D.	2	Medicine	4	Environmental health	2
Other	7	Plant physiology	4	Nursing	2
		Endocrinology	3	Philology	2
		Husbandry	3	Philosophy	2
		Oncology	3	Hospital administration	1
		Botany	2	Library science	1
		Cytology	2	Public administration	1
		Other	6		

*Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

CHRONOLOGY OF IMPORTANT EVENTS IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887** Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891** Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902** Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912** Name of Public Health & Marine Hospital changed to Public Health Service.
- 1930** Hygienic Laboratory becomes National Institute of Health under the Ransdell Act, 5/26.
- 1937** Congress authorizes National Cancer Institute, 8/15. First research grants.
- 1938** National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).
- 1944** Public Health Service Act, giving general research authority, 7/1.
- 1945** Research grants extended, with central NIH responsibility.

- 1946** Division of Research Grants established to review and evaluate applications for NIH grants to non-Federal institutions and scientists.
- 1947** First training grants (NCI). DRG starts research fellowship program.
- 1948** National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute and National Institute of Dental Research. NIH becomes National *Institutes* of Health, 6/16.
- 1949** Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950** "Omnibus Medical Research Act," 8/15. National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.
- 1953** Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955** National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services created.
- 1956** Health Research Facilities Act, authorizing program of matching grants for research construction in non-Federal institutions.

- 1958 Division of General Medical Sciences created.
- 1960 Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.
- 1962 Division of Research Facilities & Resources formed. National Library of Medicine, constituent of PHS since 1956, moves to NIH reservation.
- 1963 Two Institutes (authorized in 1962) established—National Institute of General Medical Sciences (superseding DGMS) and National Institute of Child Health & Human Development.
- 1964 Division of Computer Research and Technology established.
- 1965 Division of Regional Medical Programs created to administer the "Heart Disease, Cancer, and Stroke Amendments of 1965."
- 1966 Division of Environmental Health Sciences established.
- 1967 National Institute of Mental Health becomes separate bureau of PHS, 1/1.
- 1968 John E. Fogarty International Center for Advanced Study in the Health Sciences established.

- 1968** PHS reorganized under Assistant Secretary for Health & Scientific Affairs, DHEW. Bureau of Health Manpower, formed in PHS the previous year, and National Library of Medicine become constituents of NIH, 4/1. DRMP transferred to new Health Services & Mental Health Administration, PHS.
- Lister Hill National Center for Biomedical Communications established at NLM. National Eye Institute authorized and established. NINDB becomes National Institute of Neurological Diseases & Stroke
- BHM becomes Bureau of Health Professions Education & Manpower Training and acquires DRFR
- 1969** DEHS becomes National Institute of Environmental Health Sciences. National Heart Institute renamed National Heart & Lung Institute.
- 1970** BEMT becomes Bureau of Health Manpower Education. Its Division of Research Resources transferred to I/RD group, 9/18.
- 1971** National Cancer Program established, 12/23. Sickle Cell Disease Program initiated in NHLI.
- 1972** NIAMD becomes National Institute of Arthritis, Metabolism and Digestive Diseases, 5/19. Division of Biologics Standards transferred to Food & Drug Administration, PHS, 7/1. NCI and NHLI gain bureau status within NIH, 7/27.

AEC—Atomic Energy Commission

A & S—Arts & Sciences

BEMT—Bureau of Health Professions Education & Manpower
Training

BHM—Bureau of Health Manpower

BHME—Bureau of Health Manpower Education

Bu. Dir.—Bureau Director

CC—Clinical Center

DAHM—Division of Allied Health Manpower

DAU—Dental Auxiliary Utilization program

DBS—Division of Biologics Standards

DCE—Dental Continuing Education program

DCRT—Division of Computer Research & Technology

DDH—Division of Dental Health

DEHS—Division of Environmental Health Sciences

DGMS—Division of General Medical Sciences

DHEW—Department of Health, Education, & Welfare

DMI—Division of Manpower Intelligence

DN, DNU—Division of Nursing

DoD—Department of Defense

DPHPE—Division of Physician & Health Professions Education

DPM—Division of Physician Manpower

DRFR—Division of Research Facilities & Resources

DRG—Division of Research Grants

DRMP—Division of Regional Medical Programs

DRR—Division of Research Resources

DRS—Division of Research Services

ED—Education

FDA—Food & Drug Administration

FIC—John E. Fogarty International Center for Advanced
Study in the Health Sciences

FY—Fiscal year (July 1 — June 30)

GPO—Government Printing Office

GRS—General Research Support program

HSMHA—Health Services & Mental Health Administration

I/RD—Institutes & Research Divisions

NA—Not available

NASA—National Aeronautics & Space Administration

NCI—National Cancer Institute

NEI—National Eye Institute

NHI—National Heart Institute

NHLI—National Heart & Lung Institute

NIAID—National Institute of Allergy & Infectious Diseases

NIAMD—National Institute of Arthritis & Metabolic Diseases

NIAMDD—National Institute of Arthritis, Metabolism & Digestive Diseases

NICHD—National Institute of Child Health & Human Development

NIDR—National Institute of Dental Research

NIHES—National Institute of Environmental Health Sciences

NIGMS—National Institute of General Medical Sciences

NIH—National Institute of Health, National *Institutes* of Health

NIMH—National Institute of Mental Health

NINDB—National Institute of Neurological Diseases & Blindness

NINDS—National Institute of Neurological Diseases & Stroke

NLM—National Library of Medicine

NMI—National Microbiological Institute

NSF—National Science Foundation

OD—Office of the Director

OD—ADMIN, ODA—Offices of the Associate Director for Administration

OLA—Office of Legislative Analysis

PHS—Public Health Service

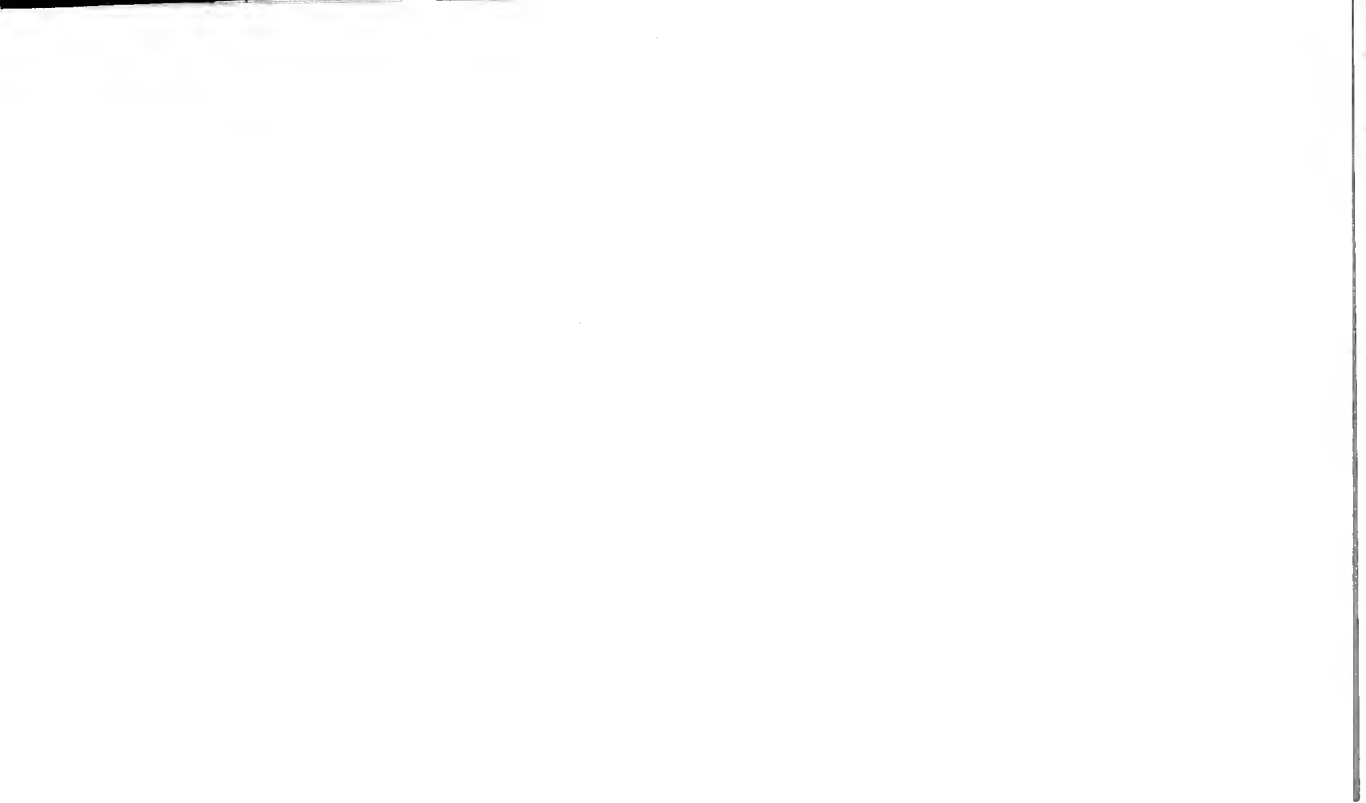
PTO—Programs transferred out of NIH

R & D—Research & development

SAB—Statistics & Analysis Branch

TEAM—Dental Team Program

VA—Veterans Administration





BASIC
DATA

RELATING TO THE

NATIONAL
INSTITUTES
OF HEALTH
1974

PRINTED IN LIMITED QUANTITY FOR ADMINISTRATIVE USE

Prepared by the staffs of the
Associate Director for Program Planning & Evaluation
and the
Division of Research Grants

NATIONAL INSTITUTES OF HEALTH

February 1974

DHEW



NATIONAL INSTITUTES



NATIONAL CANCER INSTITUTE

CANCER BIOLOGY & DIAGNOSIS
CANCER CAUSE & PREVENTION
CANCER TREATMENT
CANCER GRANTS

NATIONAL HEART & LUNG INSTITUTE

HEART & VASCULAR DISEASES
LUNG DISEASES
BLOOD DISEASES & RESOURCES
INTRAMURAL RESEARCH
TECHNOLOGICAL APPLICATIONS
EXTRAMURAL AFFAIRS

NATIONAL LIBRARY OF MEDICINE

NAT MED AUDIOVISUAL CTR
LIBRARY OPERATIONS
LISTER HILL NAT CTR FOR
BIOMED COMMUNICATIONS
SPECIALIZED INFO SERVICES
EXTRAMURAL PROGRAMS

RESEARCH & SERVICE DIVISIONS



FOREWORD

Basic Data Relating to the National Institutes of Health has been published annually since 1961. Single copies of the current and 1973 issues (the latter containing extensive tables on NIH appropriations and obligations) are available at NIH information offices.

Data are derived from NIH records and studies unless noted. The Special Projects Branch, OLA-OD, plans, edits and publishes. The Office of Resources Analysis, OD, develops the data on national support for biomedical R&D from annual surveys and other sources. The Statistics and Analysis Branch, DRG, compiles the data on NIH awards.

Reorganization of DHEW health programs in 4/68 added two major entities to NIH — the Bureau of Health Manpower Education and the National Library of Medicine. These are included in all applicable data for fiscal year 1968 and thereafter. BHME was transferred out of NIH in 7/73. The National Institute of Mental Health, which was transferred out in 1/67, is excluded from all award data for FY 1967 and thereafter (except the NIMH portion of GRS programs, administered by DRR, NIH). See the chronology for other major organizational changes.

Obligation and award data do not reflect funds withheld in FY 1973 and released in FY 1974 unless otherwise stated. All award data exclude scientific evaluation grants. Supplemental awards, unless noted, are combined with their parent awards when made from the same fiscal-year funds and are always excluded from numbers of fellowships. R&D contracts include NLM technical-development and BHME training contracts. The Division of Research Resources, though located in BHME from 4/68 to 9/70, is always included with the institutes and research divisions.

Differences between "awards" and "obligations" are due to differences in accounting by the data sources and to the re-awarding of funds (construction) from unexpended balances. Details may not add exactly to totals because of rounding.

W.T. Carrigan, editor (49-64591)

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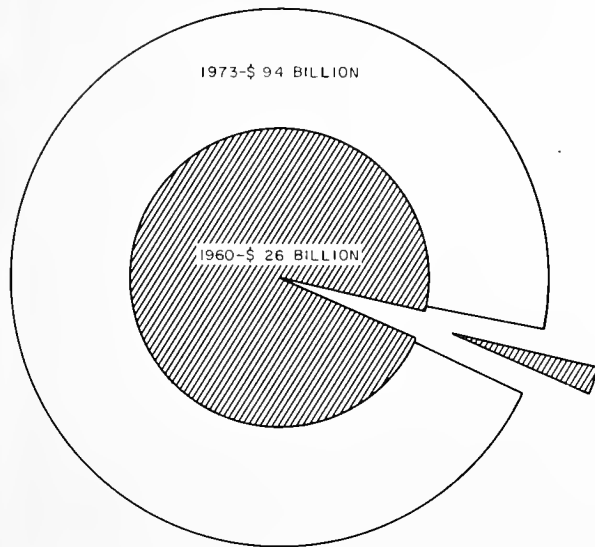
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MEDICAL R & D AS A PROPORTION OF TOTAL HEALTH COST

UNITED STATES, 1960 AND 1973 EST

TOTAL HEALTH COST



NATIONAL HEALTH COST, 1973
(IN BILLIONS)

TOTAL	\$ 94.1
HOSPITAL & NURSING-HOME CARE	39.9
PHYSICIANS', DENTISTS', AND OTHER PROFESSIONAL SERVICES	25.1
DRUGS, APPLIANCES & OTHER EXPENSES*	22.5
CONSTRUCTION.	4.3
RESEARCH	2.3

MEDICAL RESEARCH & DEVELOPMENT

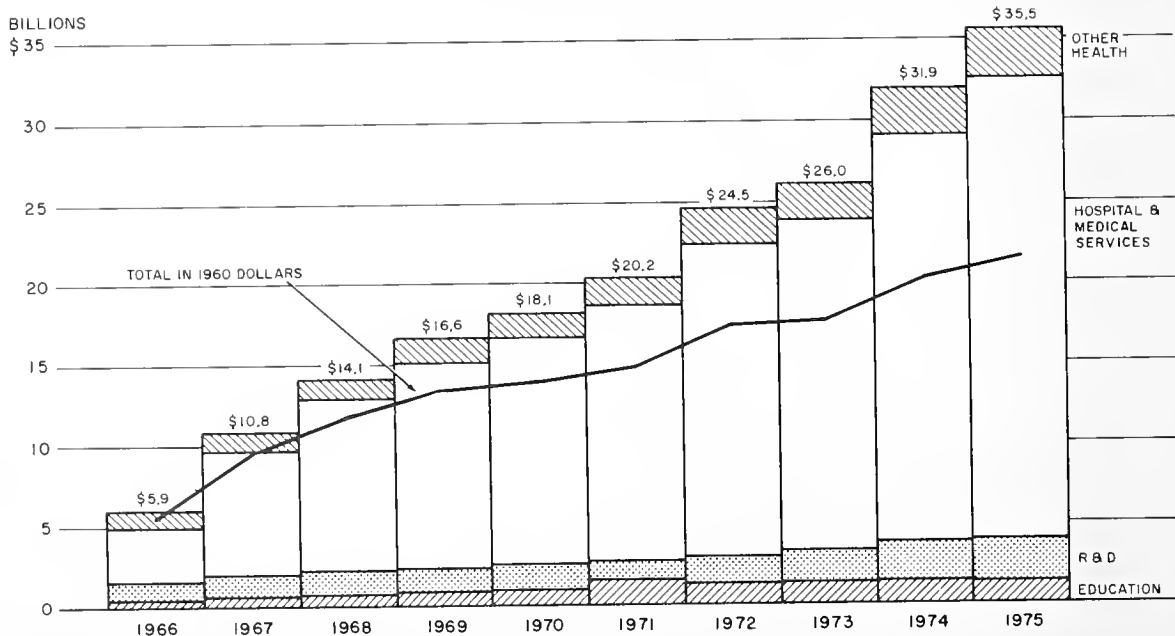
\$ 845 MILLION-3% OF 1960 TOTAL HEALTH COST

\$ 3.5 BILLION-4% OF 1973 TOTAL
HEALTH COST

SOURCE FOR NATIONAL HEALTH COST: *SOCIAL SECURITY BULLETIN*, VOL. 37, NO. 2, FEBRUARY 1974.
FOR MEDICAL AND HEALTH-RELATED R & D: *NIH*

* INCLUDES INDUSTRY R & D.

FEDERAL HEALTH EXPENDITURES FISCAL YEARS 1966 - 1975 EST.



SOURCE: SPECIAL ANALYSIS BUDGET OF THE U.S. GOVERNMENT, 1967-1975 (annual).

MEDICAL R & D AS A PROPORTION OF TOTAL R & D COST UNITED STATES, 1960 AND 1973 EST

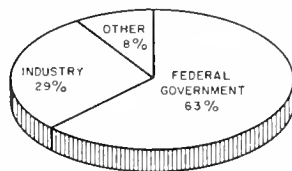
TOTAL R & D COST

1973 - \$ 30.3 BILLION

1960 - \$ 13.7 BILLION

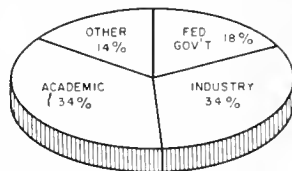
FUNDS OBLIGATED FOR MEDICAL R & D, 1973

BY SOURCE



\$ 3.5 BILLION

BY PERFORMER



\$ 3.5 BILLION

MEDICAL RESEARCH AND DEVELOPMENT

\$ 845 MILLION - 6% OF 1960 TOTAL R & D

\$ 3.5 BILLION - 12% OF 1973 TOTAL R & D

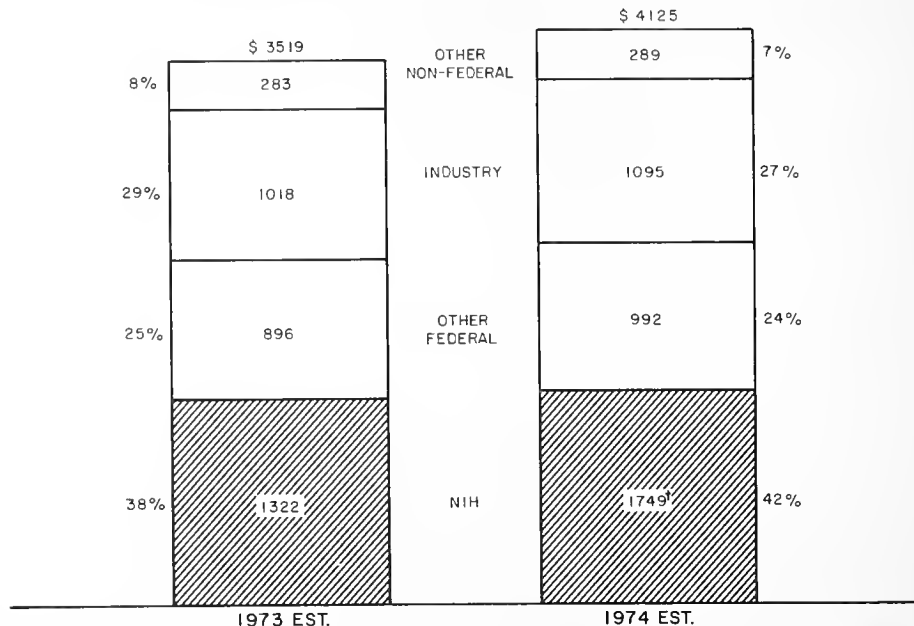


NATIONAL SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, 1950-1973 EST.*
BY SOURCE AND BY PERFORMER (In millions of dollars)

Sector	1950	1955	1960	1965	1966	1967	1968	1969	1970	1971	1972	1973 est
Total of A or B	\$161	\$261	\$845	\$1,837	\$2,053	\$2,281	\$2,486	\$2,672	\$2,728	\$3,002	\$3,352	\$3,519
<i>A. BY SOURCE OF FUNDS</i>												
Government	74	144	471	1,229	1,377	1,524	1,640	1,728	1,740	1,935	2,224	2,298
Federal	74	139	448	1,174	1,316	1,459	1,571	1,656	1,664	1,857	2,145	2,218
State and local	—	5	23	55	61	65	69	72	76	78	79	80
Industry	51	62	253	450	510	580	661	754	795	860	925	1,018
Private nonprofit	36	55	121	158	166	177	185	190	193	207	203	203
Foundations & health agencies	21	31	76	88	91	100	106	108	108	120	116	116
Other private contributors	—	1	12	25	28	29	30	32	32	33	33	33
Endowment	14	16	19	19	19	19	19	19	19	19	19	19
Institutions' own funds	1	7	14	26	28	29	30	32	34	35	35	35
<i>B. BY PERFORMER OF R & D</i>												
Federal Government	35	64	138	305	345	369	398	443	489	538	-601	637
Industry	55	69	280	537	626	715	799	891	925	988	1,082	1,190
Private nonprofit	71	128	427	995	1,082	1,197	1,289	1,338	1,314	1,476	1,669	1,692
Higher education	51	95	286	684	751	815	905	962	933	1,022	1,187	1,196
Other	20	33	141	311	331	382	384	376	381	454	482	496

*Covers medical and health-related R & D (projects, resources, and general support) but not training or construction.

NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL R & D* EST. 1973 AND 1974 (IN MILLIONS)



* COVERS ONLY MEDICAL AND HEALTH-RELATED R & D — NO TRAINING OR CONSTRUCTION

† INCLUDES \$162 MILLION WITHHELD IN FY 1973.

FEDERAL OBLIGATIONS FOR MEDICAL RESEARCH AND DEVELOPMENT, FY 1950-1973 EST.*
(In millions of dollars)

	1950	1955	1960	1965	1966	1967	1968	1969	1970	1971	1972	1973 est
Total	\$72.9	\$138.9	\$448.2	\$1,174.2	\$1,316.2	\$1,459.4	\$1,571.2	\$1,656.1	\$1,664.0	\$1,856.9	\$2,144.8	\$2,217.8
Dept. of Health, Educ., & Welfare	36.1	69.7	310.7	826.2	925.3	1,051.2	1,128.2	1,174.1	1,176.9	1,298.1	1,582.4	1,591.6
National Institutes of Health†	27.7	60.1	280.6	715.1	790.9	812.4	864.0	889.9	873.3	1,038.9	1,271.3	1,321.9
HSMHA	—	—	—	—	—	—	141.1	173.8	174.8	207.4	244.7	216.9
Other PH5	7.7	8.2	20.5	66.8	88.3	200.0§	78.3	68.8	73.2	22.4	30.4	30.2
Other DHEW	0.8	1.5	9.6	44.4	46.0	38.8	44.8	41.6	55.6	29.3	36.0	22.6
Dept. of Defense	9.7	23.7	41.5	101.3	119.2	117.5	114.0	117.5	124.9	124.2	126.0	125.2
Atomic Energy Commission	18.3	28.6	50.3	84.6	89.6	95.9	95.0	97.9	104.2	104.9	102.7	110.6
Nat. Aeronautics & Space Admin.	—	—	0.9	60.0	75.4	81.6	108.6	116.8	85.9	74.9	50.3	42.3
Veterans Administration	3.7	5.6	15.1	36.9	40.7	44.8	45.6	50.3	58.7	62.7	68.9	74.2
Dept. of Agriculture	4.8	9.0	15.0	40.5	44.7	45.4	45.8	48.2	50.1	60.3	67.3	61.1
Dept. of Transportation	0.1	†	0.8	2.8	2.5	2.4	4.5	7.3	9.7	41.9	39.0	65.0
National Science Foundation	—	1.6	11.9	19.7	13.8	13.8	21.1	25.6	28.0	33.5	36.5	44.9
Dept. of Interior	0.1	0.3	0.7	0.6	1.9	2.0	2.7	4.4	12.4	22.6	34.9	44.3
Dept. of State	—	†	0.8	0.8	1.5	2.2	2.7	8.7	10.8	15.2	15.1	17.5
Environmental Protection Agency	—	—	—	—	—	—	—	—	—	13.1	14.5	20.9
Dept. of Commerce	—	0.2	0.3	0.4	0.8	1.1	0.7	2.9	0.6	3.3	4.2	4.7
Tennessee Valley Authority	0.1	0.4	0.2	0.6	0.9	1.5	2.2	2.4	1.9	2.2	2.9	3.0
Special Action Office for Drug Abuse	—	—	—	—	—	—	—	—	—	—	—	11.9
Dept. of Justice	—	—	—	—	—	—	—	—	—	—	—	0.7

*Covers medical and health-related R & D (projects, resources, and general support) but not training or construction

§Contains NIMH, previously in NIH and later in HSMHA

||Contains FDA.

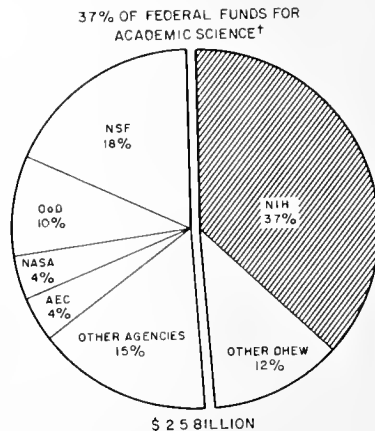
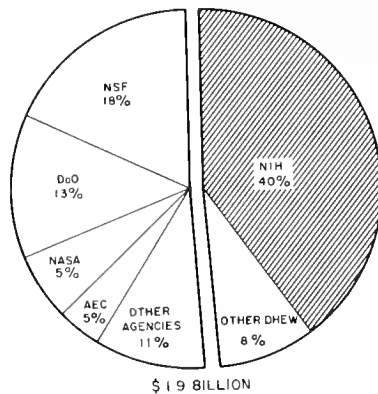
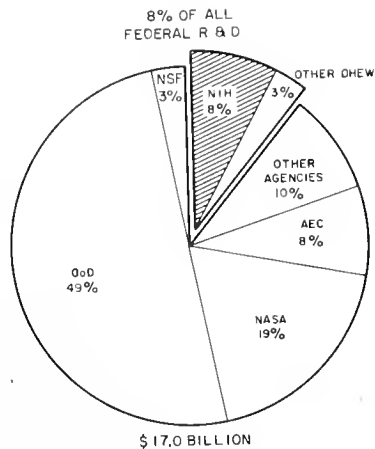
†FDA only

†As organized in the year specified

‡Less than \$50 thousand

NIH ACCOUNTS FOR-

40% OF FEDERAL FUNDS FOR R & D
AT EDUCATIONAL INSTITUTIONS



FEDERAL SUPPORT, FY 1973 EST (IN MILLIONS)

AGENCY	R & D	EDUC INSTITUTIONS*	
		R & D	ACADEMIC SCIENCE †
TOTAL	\$ 16,976	\$ 1,910	\$ 2,521
DHEW	1,818	924	1,225
NIH	1,322	769	934
OTHER	496	155	291
NSF	462	340	450
DoD	8,362	255	255
NASA	3,200	103	111
AEC	1,358	87	96
OTHER	1,776	201	384

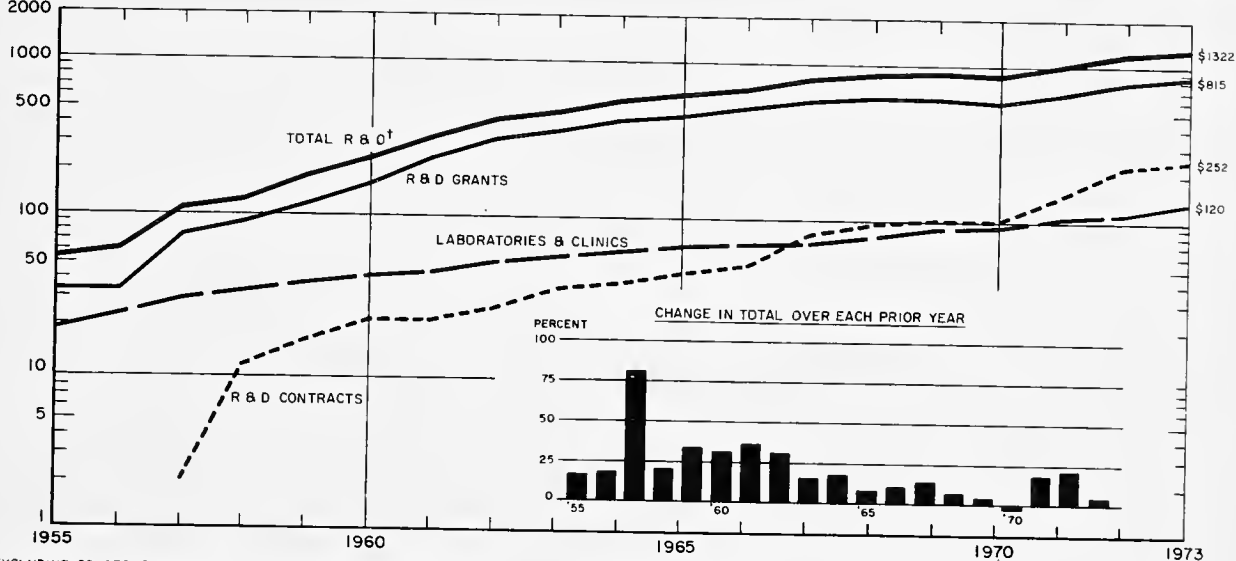
SOURCE: NSF AND NIH

*ESTIMATED. †R & D, TRAINING, FACILITIES, RESOURCES.

NIH FUNDS OBLIGATED FOR RESEARCH AND DEVELOPMENT, FISCAL YEARS 1955-1973*

MILLIONS

\$ 2000



*EXCLUDING CONSTRUCTION AND PROGRAMS TRANSFERRED OUT OF NIH. †R & D GRANTS, R & D CONTRACTS, LABORATORIES & CLINICS, COLLABORATIVE PROGRAMS, FIC, FOREIGN CURRENCY PROGRAMS, BIOMETRY/EPIDEMIOLOGY/FIELD STUDIES, AND PROGRAM MANAGEMENT APPLICABLE TO R & D.

CONSOLIDATED NIH APPROPRIATIONS BY ACTIVITY, FISCAL YEARS 1969-1974*
(In thousands of dollars)

Activity	1969				1970				1971			
	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM
Total	\$1,394,052	\$1,108,492	\$267,400	\$18,160	\$1,525,240	\$1,122,719	\$373,616	\$19,682	\$1,654,453	\$1,191,800	\$432,310	\$21,440
Research programs	880,639	870,927	8,879	833	901,815	892,274	8,946	595	988,157	977,973	9,589	595
Regular grants	478,700	473,113	4,754	833	477,140	471,764	4,786	590	483,554	478,263	4,701	590
General research support grants	52,945	52,945	-	-	52,945	52,945	-	-	46,173	46,173	-	-
Centers, resources & other grants	107,061	107,061	-	-	119,119	119,114	-	5	135,438	135,433	-	5
Laboratories & clinics	86,648	86,648	-	-	89,871	89,871	-	-	113,004	113,004	-	-
Collaborative R & D	124,796	124,796	-	-	133,525	133,525	-	-	184,489	184,489	-	-
Other direct research†	30,489	26,364	4,125	-	29,215	25,055	4,160	-	25,499	20,611	4,888	-
Research training	200,728	198,778	1,950	-	202,462	200,512	1,950	-	184,942	182,992	1,950	-
Grants & traineeships	142,540	141,390	1,150	-	147,619	146,469	1,150	-	133,472	132,322	1,150	-
Fellowships & res. career awards	57,162	56,362	800	-	53,991	53,191	800	-	50,764	49,964	800	-
Direct training	1,026	1,026	-	-	852	852	-	-	706	706	-	-
Education grants	159,395	-	159,395	-	223,775	-	223,775	-	263,830	-	263,830	-
Institutional support	96,846	-	96,846	-	139,938	-	139,938	-	163,517	-	163,517	-
Loans & scholarships	42,529	-	42,529	-	63,817	-	63,817	-	77,693	-	77,693	-
Traineeships	20,020	-	20,020	-	20,020	-	20,020	-	22,620	-	22,620	-
Biomedical communications	14,943	-	-	14,943	16,945	-	-	16,945	18,043	-	-	18,043
Medical library grants	4,955	-	-	4,955	5,197	-	-	5,197	5,397	-	-	5,397
NLM direct operations	9,988	-	-	9,988	11,748	-	-	11,748	12,646	-	-	12,646
Construction grants	93,200	8,400	84,800	-	126,100	-	126,100	-	141,100	-	141,100	-
Program management‡	45,147	30,387	12,376	2,384	54,143	29,933	12,845	2,142	58,381	30,835	15,841	2,802

* Excludes P. L. 480 program. † Includes D8S (thru FY 1972), international, DCRT (thru FY 1970), 8HME direct research, biometry, epid. & field.

‡ NIH columns (only) include buildings & facilities (\$8.0 million for FY 1974) and OD (\$12.0 million for FY 1974). § Reflects new activity structure.

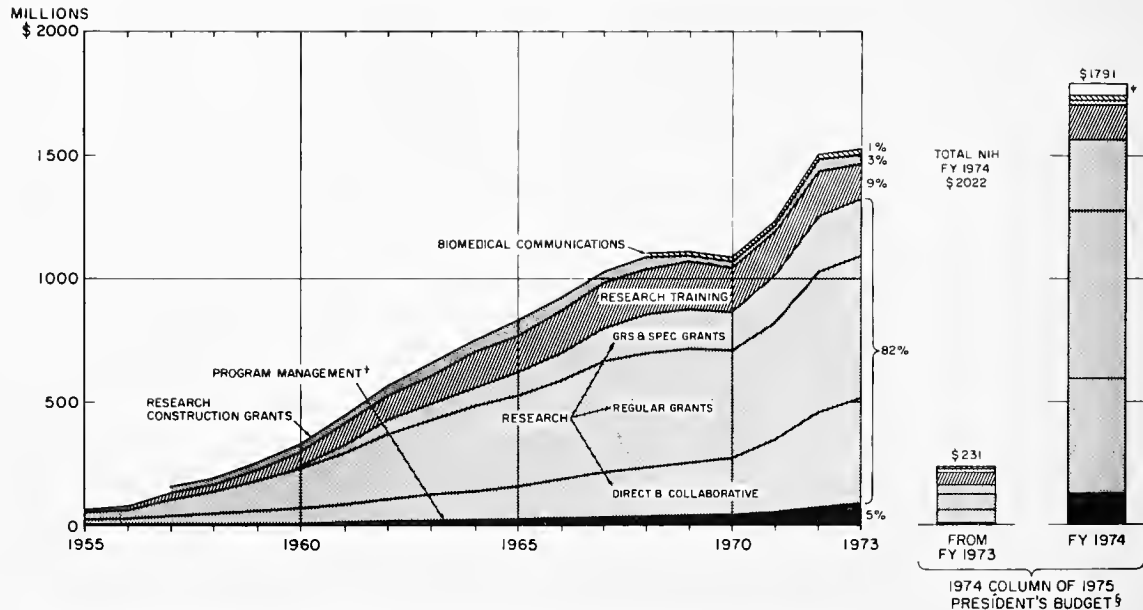
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CONSOLIDATED NIH APPROPRIATIONS BY ACTIVITY, FISCAL YEARS 1969-1974 (Cont.)*
(In thousands of dollars)

Activity§	1972				1973				1974		
	NIH	I/RD	BHME	NLM	NIH	I/RD	BHME	NLM	NIH	I/RD	NLM
Total	\$2,193,121	\$1,476,121	\$677,671	\$24,127	\$2,507,293	\$1,713,455	\$744,728	\$28,568	\$1,859,771	\$1,813,900	\$25,871
Research programs	1,185,463	1,184,718	—	745	1,375,963	1,374,968	—	995	1,506,003	1,505,158	845
Regular grants	570,972	570,322	—	650	633,218	632,318	—	900	698,511	697,761	750
General research support grants	47,185	47,185	—	—	52,673	52,673	—	—	55,000	55,000	—
Centers, resources & other grants	169,471	169,376	—	95	208,674	208,579	—	95	243,325	243,230	95
Laboratories & clinics	113,685	113,685	—	—	123,020	123,020	—	—	130,713	130,713	—
Collaborative research & support	42,472	42,472	—	—	46,491	46,491	—	—	52,646	52,646	—
Research & development contracts	228,018	228,018	—	—	304,438	304,438	—	—	317,910	317,910	—
Other direct research†	13,660	13,660	—	—	7,449	7,449	—	—	7,898	7,898	—
Research training	198,298	196,412	1,886	—	198,551	198,551	—	—	180,292	180,292	—
Grants & traineeships	146,511	145,425	1,086	—	148,795	148,795	—	—	126,253	126,253	—
Fellowships & res. career awards	51,787	50,987	800	—	49,756	49,756	—	—	54,039	54,039	—
Educational programs	493,368	—	493,368	—	594,916	—	594,916	—	—	—	—
Institutional assistance grants	330,796	—	330,796	—	374,845	—	374,845	—	—	—	—
Loans & scholarships	90,000	—	90,000	—	103,000	—	103,000	—	—	—	—
Traineeships	23,620	—	23,620	—	25,850	—	25,850	—	—	—	—
Other support (grants & contracts)	48,952	—	48,952	—	91,221	—	91,221	—	—	—	—
Biomedical communications	20,177	—	—	20,177	23,884	—	—	23,884	21,044	—	21,044
Medical library grants	6,147	—	—	6,147	7,495	—	—	7,495	6,554	—	6,554
NLM direct operations	14,030	—	—	14,030	16,389	—	—	16,389	14,490	—	14,490
Construction programs	214,885	52,000	162,885	—	178,200	56,200	122,000	—	29,000	29,000	—
Control programs	—	—	—	—	30,000	30,000	—	—	35,790	35,790	—
Program management‡	80,930	42,916	19,532	3,205	105,779	53,736	27,812	3,689	87,642	63,660	3,982

See footnotes on previous page.

NIH OBLIGATED FUNDS BY FUNCTION, FY 1955-1974 EST. EXCLUDING PROGRAMS THAT HAVE BEEN TRANSFERRED OUT *



* NIMH, COMMUNITY PROGRAMS, OBS AND BHME. ALSO EXCLUDES FOREIGN CURRENCY PROGRAM. INCLUDES NLM FROM FY 1968 ON

† INCLUDES BUILDINGS AND FACILITIES FROM FY 1969 ON. BUT CHART EXCLUDES DIRECT CONSTRUCTION FOR PRIOR YEARS. † CANCER CONTROL

§ EXCLUDES NIMH SHARE OF GRS GRANTS, \$8.0 MILLION

CONSOLIDATED NIH OBLIGATIONS BY ACTIVITY, FY 1950-1967 (in thousands of dollars)*
Including and Excluding Programs Transferred Out (PTO)†

Activity	1950		1955		1960		1965		1966		1967	
	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO	NIH total	NIH -PTO
Total	\$59,235	\$41,796	\$80,963	\$60,666	\$411,356	\$328,175	\$1,021,982	\$831,492	\$1,199,989	\$926,032	\$1,061,581	\$1,024,541
Research programs	23,914	22,591	56,495	49,643	262,528	229,277	685,097	603,142	766,317	678,489	781,888	774,104
Regular grants	13,140	12,127	33,894	30,308	185,474	162,844	425,516	369,796	465,350	405,476	448,012	448,012
General research support grants	—	—	—	—	—	—	45,000	39,116	45,200	39,361	45,266	45,266
Centers, resources & other grants	—	—	—	—	5,509	4,956	57,059	55,680	75,807	74,515	93,501	93,501
Laboratories & clinics	10,704	10,394	22,035	19,223	49,051	41,682	78,354	67,185	81,499	69,567	71,777	71,777
Collaborative R&O	—	—	—	—	19,795	19,795	72,918	69,538	90,197	86,562	102,443	102,443
Other direct research ‡	70	70	566	112	2,699	—	6,250	1,827	8,264	3,008	20,889	13,105
Research training	9,404	5,485	13,587	9,069	89,804	61,519	227,190	145,667	263,873	169,260	183,285	183,285
Grants	7,213	3,571	9,758	5,452	71,952	45,755	175,806	103,384	206,135	121,170	131,876	131,876
Traineeships	508	508	1,249	1,249	2,721	2,721	2,181	2,181	2,054	2,054	1,977	1,977
Fellowships	1,510	1,406	2,555	2,368	14,856	12,860	25,200	20,095	27,878	22,675	23,361	23,361
Research career program awards	—	—	—	—	—	—	22,448	19,500	25,937	22,778	25,292	25,292
Direct training	173	—	25	—	275	183	1,555	507	1,869	583	779	779
Construction grants	12,059	12,059	—	—	30,039	30,039	63,719	63,719	95,827	56,266	40,419	40,419
Community programs	11,847	—	8,516	—	19,946	—	22,639	—	46,894	—	27,888	—
State control grants	8,310	—	5,615	—	10,006	—	6,675	—	6,723	—	—	—
Professional & technical assistance	2,452	—	1,757	—	8,593	—	3,990	—	5,493	—	836	—
Regional medical programs	—	—	—	—	—	—	—	—	2,066	—	27,052	—
Hospital & comm. demon. grants	1,085	—	1,144	—	1,347	—	11,974	—	32,612	—	—	—
Program management	2,011	1,661	2,365	1,954	9,039	7,340	23,337	18,964	27,078	22,017	28,101	26,733

*Obligations = appropriations ± carryover ± transfers — lapsing unobligated balances (inc. reserves). Excludes direct construction and P. L. 480 programs.

†NIMH, community programs, biologics standards

‡Biologics standards; international; dental resources; computer res. & tech.; biometry, epid. & field.

CONSOLIDATED NIH OBLIGATIONS BY ACTIVITY, FY 1968-1974 EST.*
(In thousands of dollars)

Activity	1968				1969				1970			
	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM	NIH	I/RD	8HME	NLM
Total	\$1,446,500	\$1,082,861	\$336,373	\$27,266	\$1,482,899	\$1,073,519	\$387,141	\$21,739	\$1,443,977	\$1,038,000	\$377,983	\$19,758
Research programs	838,660	829,107	8,292	1,261	856,773	846,573	8,879	1,321	840,403	830,997	8,411	995
Regular grants	466,831	461,328	4,242	1,261	461,024	454,949	4,754	1,321	442,557	437,316	4,251	990
General research support grants	54,217	54,217	—	—	52,945	52,945	—	—	50,310	50,310	—	—
Centers, resources & other grants	99,408	99,408	—	—	106,020	106,020	—	—	102,654	102,649	—	5
Laboratories & clinics	79,356	79,356	—	—	87,948	87,948	—	—	91,996	91,996	—	—
Collaborative R & D	111,111	111,111	—	—	121,142	121,142	—	—	124,845	124,845	—	—
Other direct research†	27,737	23,687	4,050	—	27,694	23,569	4,125	—	28,041	23,881	4,160	—
Research training	188,818	187,318	1,500	—	198,819	196,873	1,946	—	181,348	179,102	2,246	—
Grants	132,853	131,973	880	—	139,478	138,328	1,150	—	129,348	127,901	1,447	—
Traineeships	2,303	2,303	—	—	2,765	2,765	—	—	2,664	2,664	—	—
Fellowships	25,958	25,353	605	—	27,753	26,974	779	—	20,870	20,089	781	—
Research career program awards	26,855	26,840	15	—	28,004	27,987	17	—	27,726	27,708	18	—
Direct training	849	849	—	—	819	819	—	—	740	740	—	—
Location grants	145,929	—	145,929	—	193,203	—	193,203	—	207,063	—	207,063	—
Institutional support	71,540	—	71,540	—	96,646	—	96,646	—	132,110	—	132,110	—
Loans & scholarships	55,479	—	55,479	—	73,549	—	73,549	—	54,968	—	54,968	—
Traineeships	18,910	—	18,910	—	23,008	—	23,008	—	19,985	—	19,985	—
Biomedical communications	14,022	—	—	14,022	17,029	—	—	17,029	16,525	—	—	16,525
Medical library grants	6,032	—	—	6,032	6,583	—	—	6,583	5,162	—	—	5,162
NLM direct operations	7,990	—	—	7,990	10,446	—	—	10,446	11,363	—	—	11,363
Instruction grants	220,493	38,369	171,973	10,151	173,593	—	172,343	1,250	146,342	—	146,342	—
Program management‡	38,578	28,067	8,679	1,832	43,482	30,073	10,770	2,139	52,296	27,901	13,921	2,238

Obligations — appropriations ± carryover ± transfers — lapsing unobligated balances (inc. reserves). Excludes P.L. 480 programs. †Includes D8S (thru FY 1972), International, DCRT (thru FY 1970); 8HME direct research, biometry, epid. & field. ‡NIH columns (only) include buildings & facilities from 1969 on (\$9.8 million for FY 1973) and OD from 1970 on (\$12.0 million for FY 1973). §Reflects new activity structure. ||Includes buildings & facilities (\$15.5) and OD (\$13.0).

(Continued)

CONSOLIDATED NIH OBLIGATIONS BY ACTIVITY, FY 1968-1974 Est. (Cont.)^{*}
(In thousands of dollars)

Activity [§]	1971				1972				1973				1974 est.
	NIH	I/RD	BHME	NLM	NIH	I/RD	BHME	NLM	NIH	I/RD	BHME	NLM	NIH
Total	\$1,596,314	51,189,877	\$375,058	\$21,382	\$2,077,908	\$1,474,897	\$562,835	\$23,859	\$2,117,398	\$1,483,530	\$587,080	\$24,964	\$2,002,288
Research programs	983,414	973,835	8,984	595	1,191,042	1,190,302	—	740	1,242,409	1,241,668	—	741	1,603,852
Regular grants	477,015	472,389	4,036	590	563,954	563,314	—	640	586,038	585,373	—	665	747,317
General research support grants	46,173	46,173	—	—	47,185	47,185	—	—	26,124	26,124	—	—	78,799
Centers, resources & other grants	146,662	146,657	—	5	180,589	180,489	—	100	202,417	202,341	—	76	249,300
Laboratories & clinics	108,540	108,540	—	—	115,682	115,682	—	—	119,662	119,662	—	—	125,469
Collaborative research & support	30,358	30,358	—	—	38,827	38,827	—	—	46,956	46,956	—	—	43,281
Research & development contracts	156,731	156,731	—	—	230,833	230,833	—	—	254,220	254,220	—	—	354,593
Other direct research [†]	17,935	12,987	4,948	—	13,972	13,972	—	—	6,992	6,992	—	—	5,093
Research training	183,153	180,711	2,442	—	185,228	185,228	—	—	141,184	141,184	—	—	189,035
Grants	130,556	129,156	1,400	—	136,829	136,829	—	—	103,815	103,815	—	—	139,598
Traineeships	2,336	2,336	—	—	2,151	2,151	—	—	1,264	1,264	—	—	557
Fellowships	22,359	21,361	998	—	19,671	19,671	—	—	10,900	10,900	—	—	48,880
Research career program awards	27,902	27,858	44	—	26,577	26,577	—	—	25,205	25,205	—	—	—
Education programs	214,417	—	214,417	—	520,382	—	520,382	—	501,320	—	501,320	—	—
Institutional assistance grants	163,400	—	163,400	—	298,350	—	298,350	—	352,048	—	352,048	—	—
Loans & scholarships	33,058	—	33,058	—	163,200	—	163,200	—	82,849	—	82,849	—	—
Traineeships	17,959	—	17,959	—	27,593	—	27,593	—	8,430	—	8,430	—	—
Other support (grants & contracts)	—	—	—	—	31,239	—	31,239	—	57,993	—	57,993	—	—
Biomedical communications	17,932	—	—	17,932	19,511	—	—	19,511	20,270	—	—	20,270	24,344
Construction programs	133,192	—	133,192	—	73,819	51,003	22,816	—	100,914	38,805	62,109	—	45,034
Control programs	—	—	—	—	—	—	—	—	5,223	5,223	—	—	34,055
Program management [†]	64,206	35,331	16,023	2,855	87,926	48,364	19,637	3,608	106,078	56,650	23,651	3,953	125,968

See footnotes on previous page.

ACTUAL OBLIGATIONS BY ACTIVITY,* FISCAL YEAR 1973: INSTITUTES AND RESEARCH DIVISIONS
(In thousands of dollars)

Activity	Total	NIAID	NIAMDD	NCI	NICHD	NIDR	NEI	NIH5	FIC	NIGMS	NHLI	NINDS	DRR
Total	\$1,483,530	\$103,025	\$142,818	\$431,245	\$111,207	\$40,864	\$34,389	\$26,137	\$3,874	\$154,035	\$255,722	\$107,368	\$72,846
Research programs	1,241,668	91,073	121,943	358,322	94,125	34,971	29,182	22,589	2,818	100,769	225,583	89,944	70,349
Regular grants	585,373	56,500	91,312	86,203	55,090	14,666	22,445	8,874	—	83,155	109,969	57,159	—
General research support grants	26,124	1,876	3,005	5,924	1,452	371	583	172	—	2,583	8,149	2,009	—
Centers, resources & other grants	202,341	2,399	—	71,460	5,608	6,561	—	3,743	500	10,719	27,314	5,690	68,347
Animal resources	16,547	—	—	—	—	—	—	—	—	—	—	—	16,547
General clinical research centers	41,300	—	—	—	—	—	—	—	—	—	—	—	41,300
Specialized research centers	96,380	—	—	67,510	—	361	—	—	—	—	22,819	5,690	—
Biotechnology resources	10,500	—	—	—	—	—	—	—	—	—	—	—	10,500
Other special grants	37,614	2,399	—	3,950	5,608	6,200	—	3,743	500	10,719	4,495	—	—
Laboratories & clinics	119,662	18,765	19,236	20,807	12,395	7,138	3,693	7,949	—	—	19,277	10,402	—
Collaborative research & support	46,956	1,611	691	37,745	—	329	—	—	—	—	—	6,580	—
Research & development contracts	254,220	9,922	6,646	136,183	18,952	4,996	2,124	1,851	—	4,312	59,128	8,104	2,002
Biometry, epid. & field studies	4,674	—	1,053	—	628	910	337	—	—	—	1,746	—	—
International center	2,318	—	—	—	—	—	—	—	2,318	—	—	—	—
Research training	141,184	8,758	16,650	15,706	9,970	4,002	3,586	2,185	1,047	45,159	20,071	13,743	307
Grants†	105,079	6,361	11,750	12,900	6,905	2,989	2,409	1,976	—	32,650	15,025	11,839	275
Fellowships	10,900	388	1,178	988	470	507	723	27	1,047	4,229	802	509	32
Research career program awards	25,205	2,009	3,722	1,818	2,595	506	454	182	—	8,280	4,244	1,395	—
Construction programs	38,805	—	—	38,805	—	—	—	—	—	—	—	—	—
Control programs	5,223	—	—	5,223	—	—	—	—	—	—	—	—	—
Program management	56,650	3,194	4,225	13,189	7,112	1,891	1,621	1,363	9	8,107	10,068	3,681	2,190
Research management & program services	54,335	3,174	4,225	13,189	7,112	1,851	1,586	1,345	9	5,905	10,068	3,681	2,190
Scientific evaluation grants	2,315	20	—	—	—	40	35	18	—	2,202	—	—	—

*Excluding contingencies. †Includes \$1,264 thousand in NINDS traineeships.

ACTUAL OBLIGATIONS BY ACTIVITY, FISCAL YEAR 1973: NATIONAL LIBRARY OF MEDICINE
(In thousands of dollars)

Activity	Total	Extramural Programs	Library Operations	Specialized Information Services (Toxicology)	National Medical Audiovisual Center	Lister Hill National Center for Biomedical Communications	Office of the Director
Total	\$24,964	\$7,407	\$8,338	\$1,534	\$2,536	\$1,954	\$3,195
Research programs	741	741	—	—	—	—	—
Regular grants*	665	665	—	—	—	—	—
Special scientific projects*	76	76	—	—	—	—	—
Biomedical communications	20,270	5,908	8,338	1,534	2,536	1,954	—
Grants*	5,908	5,908	—	—	—	—	—
Training	721	721	—	—	—	—	—
Library resources	2,615	2,615	—	—	—	—	—
Regional medical libraries	2,180	2,180	—	—	—	—	—
Publications	392	392	—	—	—	—	—
Intramural	14,362	—	8,338	1,534	2,536	1,954	—
Construction grants*	—	—	—	—	—	—	—
Program management	3,953	758	—	—	—	—	3,195
Program direction	3,195	—	—	—	—	—	3,195
Review & approval	758	758	—	—	—	—	—

*Funded under Medical Library Assistance Act, totaling \$6,649 thousand.

ACTUAL OBLIGATIONS BY ACTIVITY, FISCAL YEAR 1973: BUREAU OF HEALTH MANPOWER EDUCATION*
(In thousands of dollars)

Activity	Total	DAHM	DDH	DN	DPHPE	Special ed. programs	OD
Total	\$587,080	\$31,691	\$13,073	\$108,429	\$389,602	\$32,873	\$11,412
Education programs	501,320	28,145	6,403	93,763	335,301	31,758	5,950
Institutional assistance	352,048	24,496	—	50,079	277,473	—	—
Formula grants	212,468	5,554	—	38,500	168,414	—	—
Project grants	139,580	18,942	—	11,579	109,059	—	—
Student assistance grants	91,279	3,549	—	39,273	48,457	—	—
Loans	61,899	—	—	23,403	38,496	—	—
Scholarships	20,950	—	—	10,989	9,961	—	—
Traineeships	8,430	3,549	—	4,881	—	—	—
Other support (grants & contracts)	57,993	100	6,403	4,411	9,371	31,758	5,950
Educational assistance	26,235	100	6,403	4,411	9,371	—	5,950
Health manp'r ed. initiative awards	31,758	—	—	—	—	31,758	—
Construction grants	62,109	—	—	10,000	52,109	—	—
Program management	23,651	3,546	6,670	4,666	2,192	1,115	5,462

*Reflecting carryovers and advance obligational authority.

ESTIMATED OBLIGATIONS BY ACTIVITY, FISCAL YEAR 1974: INSTITUTES AND RESEARCH DIVISIONS*
(In thousands of dollars)

Activity	Total	NIAID	NIAMDD	NCI	NICHD	NIDR	NEI	NIEHS	FIC	NIGMS	NHLI	NINDS	ORR
Total	\$1,964,058	\$117,050	\$171,487	\$588,472	\$141,243	\$49,309	\$42,993	\$32,702	\$5,529	\$190,683	\$329,785	\$139,125	\$155,680
Research programs	1,602,862	100,219	146,835	449,943	118,369	37,065	34,970	27,296	3,173	118,902	295,571	118,053	152,466
Regular grants	746,417	63,464	113,037	115,153	74,918	15,658	27,521	12,894	—	88,081	155,479	80,212	—
General research support grants†	78,799	—	—	—	—	—	—	—	—	—	—	—	78,799†
Centers, resources & other grants	249,210	4,434	3,665	103,757	8,279	7,956	529	4,199	500	24,935	11,490	7,379	72,087
Animal resources	17,863	—	—	—	—	—	—	—	—	—	—	—	17,863
Biotechnology resources	11,693	—	—	—	—	—	—	—	—	—	—	—	11,693
General clinical research centers	42,531	—	—	—	—	—	—	—	—	—	—	—	42,531
Research career award programs	27,980	2,035	3,665	2,099	2,671	764	529	199	—	7,740	6,590	1,688	—
Specialized research centers	93,828	—	—	87,795	—	342	—	—	—	—	—	5,691	—
Other special grants	55,315	2,399	—	13,863	5,608	6,850	—	4,000	500	17,195	4,900	—	—
Laboratories & clinics	125,469	20,479	21,245	16,265	13,519	7,282	4,323	8,203	—	—	21,632	12,521	—
Research & development contracts	354,593	11,842	7,649	180,369	20,947	5,083	2,122	2,000	—	5,886	106,970	10,145	1,580
Collaborative research & support	43,281	—	—	34,399	—	1,086	—	—	—	—	—	7,796	—
Biometry, epidemiology & field studies	2,420	—	1,239	—	706	—	475	—	—	—	—	—	—
International center	2,673	—	—	—	—	—	—	—	2,673	—	—	—	—
Research training	189,035	10,777	18,640	23,643	14,394	9,205	6,009	4,003	2,356	64,090	18,628	16,562	728
Grants†	140,155	7,125	15,018	16,558	11,017	5,626	3,822	3,397	—	51,446	12,418	13,291†	437
Fellowships	48,880	3,652	3,622	7,085	3,377	3,579	2,187	606	2,356	12,644	6,210	3,271	291
Construction programs	45,034	—	—	45,034	—	—	—	—	—	—	—	—	—
Cancer control program	34,055	—	—	34,055	—	—	—	—	—	—	—	—	—
Program management	93,072	6,054	6,012	35,797	8,480	3,039	2,014	1,403	—	7,691	15,586	4,510	2,486
Research management & program services	91,197	5,904	5,756	35,518	8,325	3,003	1,919	1,379	—	6,993	15,586	4,328	2,486
Scientific evaluation	1,875	150	256	279	155	36	95	24	—	698	—	182	—

*Based on FY 1974 column of FY 1975 President's Budget. Includes \$227,587 thousand withheld in FY 1973.

†Excludes NIMH share, \$8,027 thousand.

‡Includes \$557 thousand in NINDS traineeships.

ESTIMATED OBLIGATIONS BY ACTIVITY, FISCAL YEAR 1974: NATIONAL LIBRARY OF MEDICINE*
(In thousands of dollars)

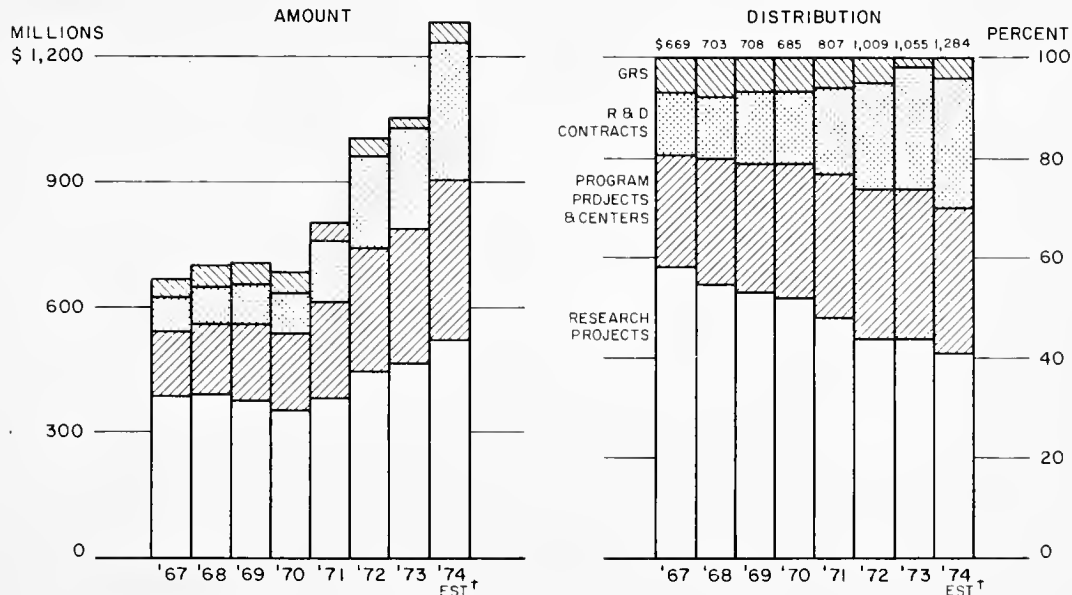
Activity	Total	Extramural Programs	Library Operations	Specialized Information Services (Toxicology)	National Medical Audiovisual Center	Lister Hill National Center for Biomedical Communications	Office of the Director
Total	\$29,775	\$8,483	\$9,754	\$1,813	\$3,326	\$2,752	\$3,647
Research programs	990	990	—	—	—	—	—
Regular grants†	900	900	—	—	—	—	—
Special scientific projects†	90	90	—	—	—	—	—
Biomedical communications	24,344	6,699	9,754	1,813	3,326	2,752	—
Grants†	6,699	6,699	—	—	—	—	—
Training	725	725	—	—	—	—	—
Library resources	2,705	2,705	—	—	—	—	—
Regional medical libraries	2,929	2,929	—	—	—	—	—
Publications	340	340	—	—	—	—	—
Intramural	17,645	—	9,754	1,813	3,326	2,752	—
Construction grants†	—	—	—	—	—	—	—
Program management	4,441	794	—	—	—	—	3,647
Program direction	3,647	—	—	—	—	—	3,647
Review & approval	794	794	—	—	—	—	—

*Based on '74 column of FY 1975 President's Budget. Includes \$3,494 thousand withheld in FY 1973, totaling \$7,689 thousand.

†Funded under Medical Library Assistance Act,

NIH EXTRAMURAL RESEARCH PROGRAM AWARDS AND THEIR PERCENT DISTRIBUTION*

FISCAL YEARS 1967-1974 EST.



*INCLUDES 1/RDs ONLY EXCLUDES NIMH (AND NIMH PORTION OF GRS PROGRAMS).
MILLION WITHHELD IN FY 1973 AND RELEASED IN FY 1974

[†]EXCLUDES \$228

NIH GRANTS AND AWARDS BY YEAR AND PROGRAM, FISCAL YEARS 1956-1973*
(Amounts in millions of dollars)

Fiscal year	Total amount [†]	I/RD and NLM												BHME programs
		Research grants		R & D contracts [‡]		Research career program awards [§]		Research training grants		Research fellowships		Construction grants		
		Number **	Amount	Number **	Amount	Number **	Amount	Number **	Amount	Number	Amount	Number **	Amount	Amount
1956	\$ 64.7	3,475	\$ 40.4	—	\$ —	—	\$ —	699	\$ 13.5	1,817	\$ 4.4	—	\$ —	5 —
1957	156.1	6,300	82.9	43	1.9	43	0.5	1,119	25.6	2,523	6.8	109	30.0	—
1958	191.3	7,134	101.3	176	11.0	86	1.0	1,367	31.9	2,657	7.5	177	30.2	—
1959	260.2	9,056	141.4	321	17.2	165	2.0	1,934	48.9	3,152	10.7	205	31.6	—
1960	354.7	11,571	198.8	286	23.1	226	3.0	2,626	73.7	4,029	14.9	171	30.8	—
1961	478.8	13,534	272.9	311	22.9	378	5.0	3,586	106.4	4,100	17.1	156	38.0	—
1962	600.3	14,975	372.1	419	28.1	690	10.0	3,697	115.9	3,389	19.6	112	36.8	—
1963	710.1	15,973	430.9	496	38.3	917	14.2	4,114	140.6	3,629	23.8	178	51.3	—
1964	815.9	16,020	497.9	597	42.7	1,162	19.8	4,346	165.9	3,708	24.7	129	53.9	—
1965	892.8	15,792	538.8	474	48.6	1,238	22.4	4,568	183.9	4,043	27.4	120	64.9	—
1966	1,042.2	15,686	601.0	590	53.3	1,353	25.7	4,731	205.7	4,480	29.9	178	100.5	—
1967	926.9	14,313	593.3	835	83.9	1,259	25.1	2,497	131.7	3,550	25.3	75	42.3	—
1968	1,274.7	13,290	621.8	995	93.4	1,272	26.8	2,464	132.9	3,598	27.7	61	51.1	282.0
1969	1,289.3	12,477	622.8	1,035	99.7	1,264	27.9	2,419	139.6	3,847	29.8	23	22.8	342.4
1970	1,250.0	11,384	597.9	1,128	101.1	1,180	27.6	2,186	128.9	2,810	22.7	3	0.5	367.3
1971	1,414.7	11,144	672.5	1,500	150.1	1,168	28.0	2,133	130.1	2,722	23.9	—	—	407.5
1972	1,767.2	11,658	798.8	1,802	223.2	1,156	27.7	2,046	137.2	2,271	21.6	17	44.1	508.0
1973	1,749.7	11,515	812.6	1,854	250.5	1,088	25.9	1,713	103.8	1,240	12.3	21	33.5	508.5

*Includes NIMH through FY 1966 and NLM from FY 1968

[†]Medical library grants and former NIH community programs included in total column only[‡]Includes NLM technical development contracts.[§]Senior and special fellowships prior to FY 1962^{||}Includes research traineeships, and part-time fellowships through FY 1961[◇]See footnote on page 26 for program coverage.^{**}Counts supplemental

awards separately.

NIH GRANTS AND AWARDS BY NIH COMPONENT AND PROGRAM, FISCAL YEAR 1973*
(Amounts in millions of dollars)

NIH component	Total amount [†]	Research grants		R & D contracts [‡]		Research career program awards		Research training grants		Research fellowships [§]		Construction grants		Education grants	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$1,749.7	11,317	\$815.2	1,847	\$276.4	1,089	\$25.9	1,719	\$104.6	1,378	\$13.0	38	\$93.4	4,306	\$418.5
I/RD	1,230.1	11,223	811.6	1,522	243.9	1,087	25.9	1,696	103.1	1,233	12.2	20	33.5	—	—
NIAID	76.6	1,102	59.3	102	8.5	81	2.0	126	6.4	41	0.4	—	—	—	—
NIAMDD	115.1	1,767	91.7	87	6.8	152	3.7	249	11.7	123	1.2	—	—	—	—
NCI	339.3	1,804	157.2	636	132.8	77	1.8	196	13.0	91	1.0	20	33.5	—	—
NICHD	88.9	945	61.0	197	17.9	109	2.6	97	6.9	44	0.5	—	—	—	—
NIDR	29.7	284	21.2	47	4.4	22	0.5	73	3.0	38	0.5	—	—	—	—
NIEHS	15.9	148	12.6	14	1.1	9	0.2	27	2.0	3	◇	—	—	—	—
NEI	28.1	458	22.4	20	2.1	19	0.5	44	2.4	57	0.7	—	—	—	—
NIGMS	140.6	1,284	92.6	11	2.9	371	8.3	447	32.7	520	4.2	—	—	—	—
NHLI	212.1	1,550	136.7	314	55.4	181	4.9	219	14.3	71	0.8	—	—	—	—
NINDS	84.7	1,170	62.7	60	8.3	66	1.4	209	10.6	143	1.8	—	—	—	—
DRR	97.1	711**	94.1**	19	2.7	—	—	9	0.3	4	◇	—	—	—	—
Other ^{††}	1.9	—	—	15	0.9	—	—	—	—	98	1.0	—	—	—	—
8HME	508.5	47	2.6	252	25.9	2	◇	14	0.9	138	0.7	18	59.9	4,306	418.5
DAH	35.3	—	—	70	4.6	—	—	—	—	—	—	—	—	889	30.6
DDH	7.5	3	0.2	34	2.0	2	◇	5	0.2	2	◇	—	—	31	5.0
DMI	2.2	—	—	39	2.2	—	—	—	—	—	—	—	—	—	—
DNU	122.2	43	2.4	30	2.7	—	—	9	0.7	136	0.6	8	9.5	2,458	106.3
DPHE	327.8	—	—	20	6.1	—	—	—	—	—	—	10	50.4	880	271.3
Su. Dir.	13.6	1	◇	59	8.3	—	—	—	—	—	—	—	—	48	5.3
NLM	11.1 [†]	47	1.0	73	6.6	—	—	9	0.7	7	0.1	—	—	—	—

*Excludes scientific evaluation grants, \$4.3 million

†Medical library grants, \$2.7 million, included in total column only.

‡Includes NLM technical development contracts and 8HME training

contracts

§Includes NINDS research traineeships

||Includes applied traineeships, formula and project grants, and loans and scholarships

◇Less than \$50 thousand

**Includes general

research support programs.

††CC, DCRT, DR5, FIC, OD, and joint.

NIH GRANTS AND AWARDS BY GEOGRAPHIC LOCATION AND PROGRAM, FISCAL YEAR 1973
(In thousands of dollars)

Geographic location	Total		I/RD and NLM							BHME programs†
	Incl. BHME	Excl. BHME	Research grants	R & D contracts*	Research career program awards	Research training grants	Research fellowships†	Construction grants	Medical library grants	
Total	\$1,749,724	\$1,241,201	\$812,585	\$250,505	\$25,888	\$103,774	\$12,303	\$33,478	\$2,669	\$508,523
U.S. Total	1,740,208	1,231,942	809,680	244,906	25,888	103,774	11,547	33,478	2,669	508,266
Alabama	34,438	18,691	9,338	7,011	239	837	108	1,114	44	15,747
Alaska	985	717	614	103	—	—	—	—	—	268
Arizona	7,628	4,231	3,412	441	66	254	58	—	—	3,397
Arkansas	3,489	1,087	887	—	51	138	12	—	—	2,402
California	205,359	171,186	116,527	32,883	2,820	14,064	2,164	2,544	182	34,173
Colorado	19,523	14,566	11,108	1,356	464	1,436	196	—	6	4,957
Connecticut	32,205	26,904	21,181	1,573	758	2,795	332	207	59	5,301
Delaware	894	500	480	20	—	—	—	—	—	394
Dist. of Col.	38,732	22,551	8,664	7,896	61	798	51	5,079	2	16,181
Florida	29,368	20,662	14,016	3,508	404	1,983	126	525	100	8,706
Georgia	21,608	12,155	9,184	1,714	339	869	31	—	18	9,453
Hawaii	9,657	4,457	2,989	1,347	29	71	22	—	—	5,200
Idaho	782	202	60	137	—	—	—	—	5	580
Illinois	72,759	48,694	30,168	11,401	937	5,684	365	—	139	24,065
Indiana	22,763	12,590	9,423	1,234	461	1,263	157	—	52	10,173
Iowa	21,288	11,797	9,033	862	429	1,309	64	—	100	9,491
Kansas	12,161	7,613	5,955	597	291	736	30	—	3	4,548
Kentucky	9,881	2,934	1,969	392	126	421	26	—	—	6,947
Louisiana	31,167	12,464	8,574	2,263	233	1,200	55	—	138	18,703

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS BY GEOGRAPHIC LOCATION AND PROGRAM, FISCAL YEAR 1973 (Cont.)
(In thousands of dollars)

Geographic location	Total		I/RD and NLM							BHME programs [†]
	Incl. BHME	Excl. BHME	Research grants	R & D contracts*	Research career program awards	Research training grants	Research fellowships [†]	Construction grants	Medical library grants	
Maine	\$ 2,904	\$ 2,527	\$ 2,003	\$ 400	\$ 50	\$ 71	\$ —	\$ —	\$ 3	\$ 377
Maryland	87,220	74,526	24,138	37,638	1,113	4,104	1,035	6,421	78	12,694
Massachusetts	135,658	118,799	79,636	21,342	2,449	10,333	1,730	3,150	160	16,859
Michigan	49,886	29,780	20,202	5,750	526	2,940	275	—	87	20,106
Minnesota	42,484	30,821	20,077	6,061	416	3,706	308	—	255	11,663
Mississippi	6,046	3,146	2,097	581	71	372	25	—	—	2,900
Missouri	47,389	33,088	23,075	5,354	793	3,462	359	—	46	14,301
Montana	1,337	500	379	—	67	32	23	—	—	837
Nebraska	15,755	5,838	1,584	3,805	143	217	15	—	74	9,917
Nevada	773	15	15	—	—	—	—	—	—	758
New Hampshire	4,478	2,983	2,129	362	274	145	40	—	33	1,495
New Jersey	19,804	12,912	5,952	6,238	102	497	78	—	46	6,892
New Mexico	6,380	2,753	2,097	352	106	130	40	—	28	3,627
New York	218,855	177,160	132,690	21,956	3,181	13,260	1,144	4,694	234	41,695
North Carolina	51,025	41,973	26,202	4,789	1,437	4,551	323	4,655	16	9,052
North Dakota	2,281	337	199	—	49	53	7	—	30	1,944
Ohio	54,129	30,150	19,843	6,037	925	3,190	138	—	16	23,979
Oklahoma	9,471	4,849	3,053	993	215	507	9	—	72	4,622
Oregon	16,582	12,726	10,657	552	298	1,116	103	—	—	3,856
Pennsylvania	104,142	73,111	51,334	12,411	2,012	6,540	639	—	175	31,031

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS BY GEOGRAPHIC LOCATION AND PROGRAM, FISCAL YEAR 1973 (Cont.)
(In thousands of dollars)

Geographic location	Total		I/RD and NLM							BHME programs†
	Incl. BHME	Excl. BHME	Research grants	R & D contracts*	Research career program awards	Research training grants	Research fellowships†	Construction grants	Medical library grants	
Rhode Island	\$ 8,407	\$ 4,068	\$ 3,281	\$ 296	\$ 15	\$ 185	\$ 10	\$ 281	\$ —	\$ 4,339
South Carolina	6,229	2,358	1,746	362	24	49	1	—	176	3,871
South Dakota	1,750	197	146	—	24	18	—	—	8	1,553
Tennessee	29,962	19,209	15,928	706	558	1,872	139	—	6	10,753
Texas	83,677	49,999	33,657	7,918	1,073	3,367	304	3,549	132	33,678
Utah	15,202	11,413	6,814	3,094	271	1,148	86	—	—	3,789
Vermont	4,604	3,318	2,560	286	121	268	20	—	63	1,286
Virginia	32,128	23,503	8,474	13,287	537	1,071	131	—	3	8,625
Washington	43,075	33,119	22,083	5,239	724	3,437	418	1,218	—	9,956
West Virginia	3,839	1,004	691	10	50	237	—	—	15	2,835
Wisconsin	52,718	29,448	22,124	3,677	449	2,745	352	40	62	23,270
Wyoming	430	136	111	—	25	—	—	—	—	294
Puerto Rico	6,836	2,172	1,122	672	85	294	—	—	—	4,664
Virgin Islands	64	—	—	—	—	—	—	—	—	64
Foreign	9,516	9,260	2,905	5,599	—	—	756	—	—	256

*Includes NLM contracts for technical development.

†Includes NINDS research traineeships.

‡Includes research grants; development and training contracts; research career program, research training, and fellowship awards; construction grants; applied traineeships; formula and project grants; and loans and scholarships.

NIH GRANTS AND AWARDS BY KIND OF RECIPIENT INSTITUTION AND PROGRAM, FISCAL YEAR 1973
(Amounts in thousands of dollars)

Kind of recipient institution	Total				I/RD and NLM								
	Incl. 8HME		Excl. 8HME		Research grants			R & D contracts			Research career program awards		
	Number of inst. †	Amount	Number of inst. †	Amount	Number of inst. †	Number	Amount	Number of inst. †	Number	Amount	Number of inst. †	Number	Amount
Total	2,368	\$1,749,724	1,213	\$1,241,201	786	11,270	\$812,585	518	1,595	\$250,505	184	1,087	\$25,888
Domestic	2,249	1,740,208	1,066	1,231,942	718	11,156	809,680	471	1,524	244,906	184	1,087	25,888
Higher education	1,048	1,393,868	363	921,513	350	9,335	656,418	134	778	107,993	150	999	23,790
Research institutes	211	127,773	201	125,856	112	566	60,927	117	319	60,381	10	20	486
Hospitals [§]	607	136,377	280	114,504	175	1,088	83,329	66	138	16,187	22	57	1,356
Grad. trg. centers	2	451	1	51	1	1	51	—	—	—	—	—	—
Patient centers	18	2,127	12	1,825	8	11	1,388	3	4	364	—	—	—
Soc. serv. agencies	4	75	1	53	—	—	—	1	1	53	—	—	—
Associations, etc.	124	15,595	61	9,842	36	71	3,336	31	61	6,234	1	2	40
Government units	68	9,658	28	7,514	19	60	3,204	18	31	4,050	1	9	216
Other domestic	167	54,284	119	50,785	17	24	1,027	101	192	49,644	—	—	—
Foreign	148	9,516	147	9,260	68	114	2,905	47	71	5,599	—	—	—

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS BY KIND OF RECIPIENT INSTITUTION AND PROGRAM, FISCAL YEAR 1973 (Cont.)
(Amounts in thousands of dollars)

Kind of recipient institution	I/RD and NLM												BHME programs [†]	
	Research training grants			Research fellowships*			Construction grants			Medical library grants				
	Number of inst. [†]	Number	Amount	Number of inst. [†]	Number	Amount	Number of inst. [†]	Number	Amount	Number of inst. [†]	Number	Amount	Number of inst. [†]	Amount
Total	213	1,705	\$103,774	209	1,240	\$12,303	18	20	\$33,478	148	166	\$2,669	1,533	\$508,523
Domestic	213	1,705	103,774	171	1,175	11,547	18	20	33,478	148	166	2,669	1,531	508,266
Higher education	144	1,547	94,798	128	1,033	9,904	11	12	26,734	47	62	1,877	930	472,355
Research institutes	19	36	1,700	22	100	1,099	1	1	1,218	2	2	45	21	1,918
Hospitals [§]	45	115	7,062	18	39	524	6	7	5,527	90	90	520	396	21,873
Grad. trg. centers	—	—	—	—	—	—	—	—	—	—	—	—	2	401
Patient centers	2	2	63	1	1	6	—	—	—	1	1	3	7	302
Soc. serv. agencies	—	—	—	—	—	—	—	—	—	—	—	—	3	22
Associations, etc.	2	4	122	1	1	8	—	—	—	2	4	102	68	5,753
Government units	1	1	29	1	1	8	—	—	—	2	2	8	51	2,144
Other domestic	—	—	—	—	—	—	—	—	—	4	5	115	53	3,498
Foreign	—	—	—	38	65	756	—	—	—	—	—	—	2	256

*Includes NINDS research traineeships. Both number columns exclude supplements and supply allowances. [†]See footnote on page 26 for program coverage. [†]Represents a count of separate branches or individual organizations, except that parent institutions *only* are counted for universities and colleges that do not belong to institutional systems. [§]Independent hospitals and those owned by institutions not classified as "higher education" or "research institute."

NIH GRANTS AND AWARDS TO DOMESTIC INSTITUTIONS OF HIGHER EDUCATION, BY MAJOR COMPONENT AND PROGRAM, FY 1973
(Amounts in thousands of dollars)

Major component	Total amount		I/RD and NLM					
	Incl. 8HME	Excl. 8HME	Research grants		R & D contracts		Research career program awards	
			Number	Amount	Number	Amount	Number	Amount
Total	\$1,393,868	\$921,513	9,335	\$656,418	778	\$107,993	999	\$23,790
Health professional components	1,177,182	712,415	6,446	497,761	640	89,628	742	18,330
Medical schools†	828,228	636,573	5,753	447,800	541	76,435	688	17,030
Nursing	108,032	165	5	120	1	29	—	—
Dentistry	89,425	19,333	212	14,740	19	1,905	18	420
Public health	38,107	23,701	137	14,584	39	5,864	24	587
Pharmacy	31,967	6,037	125	4,258	13	833	6	136
Veterinary medicine	27,111	9,768	141	6,414	14	2,191	3	70
Hospitals‡	21,414	15,879	56	9,163	13	2,371	2	60
Optometry	7,695	241	6	171	—	—	—	—
Other	25,203	718	11	511	—	—	1	27
Schools of A & S and graduate schools	141,891	139,219	2,176	108,178	66	5,055	207	4,417
Other components	74,790	69,876	713	50,479	72	13,308	50	1,043
Organized research units	23,286	22,971	125	13,077	23	8,671	8	155
Engineering	15,186	14,855	167	10,453	28	2,207	18	374
Agriculture	14,691	14,575	247	11,611	10	931	15	336
Primate centers	8,219	8,219	22	7,943	3	256	1	20
University-wide	6,672	3,969	113	3,530	3	439	—	—
Computer centers	2,104	2,104	4	1,791	1	304	—	—
Other	4,632	3,183	35	2,074	4	500	8	158

See footnotes at end of table.

(Continued)

NIH GRANTS AND AWARDS TO DOMESTIC INSTITUTIONS OF HIGHER EDUCATION, BY MAJOR COMPONENT AND PROGRAM, FY 1973 (Cont.)
(Amounts in thousands of dollars)

Major component	I/RD and NLM								BHME programs†
	Research training grants		Research fellowships*		Construction grants		Medical library grants		
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount
Total	1,547	\$94,798	1,033	\$9,904	12	\$26,734	62	\$1,877	\$472,355
Health professional components	1,284	76,795	597	6,339	10	21,859	52	1,703	464,767
Medical schools†	1,141	69,962	530	5,628	9	18,310	41	1,408	191,655
Nursing	—	—	—	—	—	—	2	16	107,867
Dentistry	58	2,015	19	253	—	—	—	—	70,092
Public health	44	2,515	15	151	—	—	—	—	14,406
Pharmacy	14	762	9	44	—	—	2	4	25,930
Veterinary medicine	20	826	20	216	—	—	3	51	17,343
Hospitals§	5	644	2	27	1	3,549	1	65	5,535
Optometry	1	51	2	19	—	—	—	—	7,454
Other	1	20	—	1	—	—	3	159	24,485
Schools of A & S and graduate schools	205	13,855	366	2,839	2	4,875	—	—	2,672
Other components	58	4,147	70	726	—	—	10	173	4,914
Organized research units	9	921	14	146	—	—	1	1	315
Engineering	22	1,477	32	344	—	—	—	—	331
Agriculture	23	1,505	20	192	—	—	—	—	116
Primate centers	—	—	—	—	—	—	—	—	—
University-wide	—	—	—	—	—	—	—	—	2,703
Computer centers	—	—	1	9	—	—	—	—	—
Other	4	244	3	35	—	—	9	172	1,449

*Includes NINDS research traineeships

[†]See footnote on page 26 for program coverage.

[‡]Includes the Primate Center at Harvard Medical School and joint awards to schools of medicine and dentistry.

[§]Hospitals owned by institutions of higher education, except those administered by medical schools.

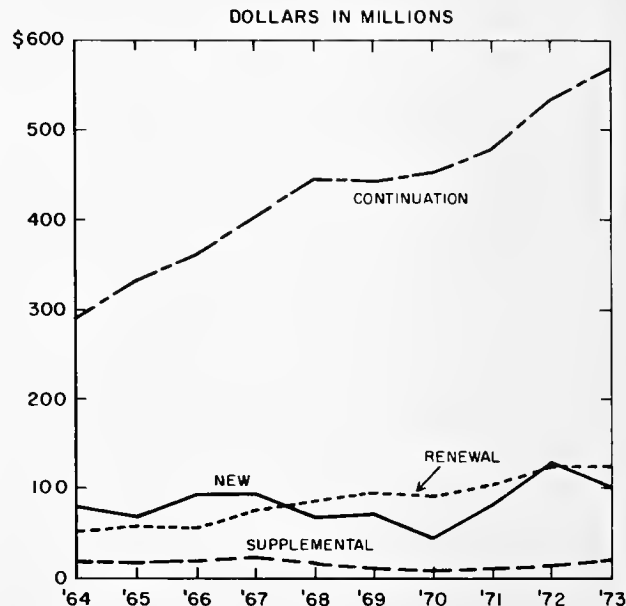
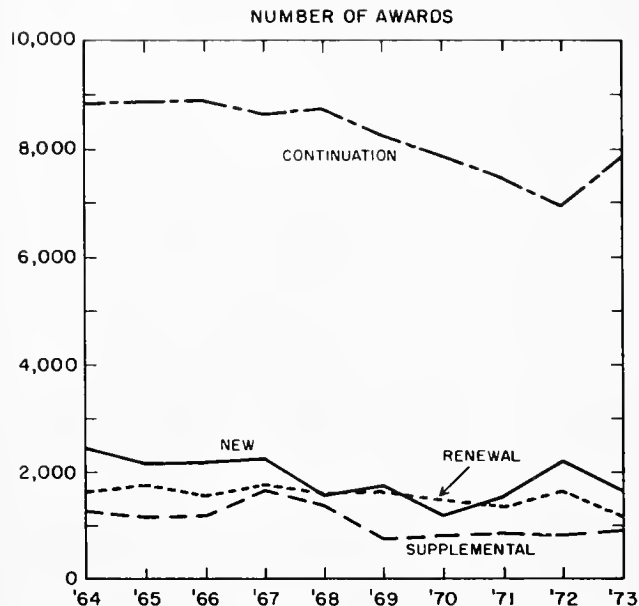
NIH RESEARCH GRANTS BY KIND OF PROGRAM AND TYPE OF GRANT, FISCAL YEAR 1973
(Amounts in thousands of dollars)

Kind of program	Total		Competing grants						Noncompeting grants			
			New		Renewal		Supplemental		Continuation		Supplemental	
	Number *	Amount	Number	Amount	Number	Amount	Number *	Amount	Number	Amount	Number *	Amount
Total	11,564	\$815,194	1,622	\$100,076	1,172	\$124,381	189	\$5,680	7,852	\$572,163	729	\$12,897
I/RD & NLM	11,515	812,585	1,613	99,557	1,171	124,320	188	5,655	7,822	570,239	721	12,816
Research projects	10,058	464,860	1,477	67,095	1,052	66,089	156	3,474	6,747	322,286	626	5,917
Traditional	9,548	437,272	1,310	60,512	1,011	62,460	146	3,216	6,477	305,583	604	5,502
Chemotherapy and psychopharm	249	14,847	41	1,594	29	3,085	10	258	156	9,686	13	225
U.S.-Japan coop med sci. program	98	4,824	14	470	10	533	—	—	71	3,732	3	88
National targeted projects	53	3,950	49	3,630	—	—	—	—	2	285	2	35
Other	110	3,967	63	889	2	11	—	—	41	3,000	4	67
Program projects and centers	964	321,801	122	31,484	118	58,176	32	2,181	597	223,062	95	6,899
Research program projects	544	176,540	70	20,705	75	37,405	14	1,008	328	115,392	57	2,031
General clinical research centers	83	41,300	4	1,113	6	2,869	—	—	73	37,318	—	—
Categorical clinical res. centers	66	30,086	5	3,047	12	8,266	1	15	35	15,334	13	3,424
Specialized centers of research	82	23,632	10	812	—	—	16	1,145	42	21,269	14	405
Animal resources	81	15,890	19	1,847	6	4,083	—	—	52	9,744	4	215
Biotechnology resources	45	10,065	4	481	12	3,134	—	—	23	5,653	6	797
Sickle cell centers	15	6,577	5	2,680	—	—	—	—	10	3,897	—	—
Dental research institute program	6	6,200	—	—	—	—	—	—	5	6,174	1	26
Pharmacology-toxicology centers	11	5,738	—	—	2	809	—	—	9	4,929	—	—
Environmental health centers	7	3,743	1	452	3	1,492	—	—	3	1,799	—	—
Outpatient clinical research program	24	2,031	4	347	2	118	1	13	17	1,553	—	—
General research support programs	493	25,924	14	978	1	55	—	—	478†	24,891†	—	—
General research support grants	327	17,234	—	—	—	—	—	—	327	17,234	—	—
Minority schools biomedical support	51	5,000	14	978	1	55	—	—	36	3,967	—	—
Biomedical sciences support grants	113	2,690	—	—	—	—	—	—	113	2,690	—	—
Health sciences advancement awards	2	1,000	—	—	—	—	—	—	2	1,000	—	—
8HME	49	2,610	9	519	1	61	1	25	30	1,924	8	81

*Each supplemental grant is counted separately.

†Includes 13 new grants for \$277 thousand which are noncompeting because not reviewed by national advisory councils.

NIH RESEARCH GRANTS BY TYPE FISCAL YEARS 1964 - 1973*



* INCLUDES NIEHS AND NLM, AND EXCLUDES NIMH AND BHME, FOR ALL YEARS.

NIH RESEARCH PROJECT GRANTS AND RESEARCH AND DEVELOPMENT CONTRACTS, BY SCIENTIFIC DISCIPLINE OR FIELD, FISCAL YEARS 1972 & 1973*
(Amounts in thousands of dollars)

Scientific discipline or field†	Fiscal year 1972						Fiscal year 1973					
	Research project grants			R & D contracts			Research project grants			R & D contracts		
	Number	Amount	Percent	Number	Amount	Percent	Number	Amount	Percent	Number	Amount	Percent
Total	10,138	\$454,001		1,801	\$268,340		9,917	\$467,470		1,847	\$276,435	
I/RD and NLM	10,072	447,740	100.0%	1,476	223,183	100.0%	9,870	464,860	100.0%	1,595	250,505	100.0%
Biological sciences	4,912	219,538	49.0	465	67,290	30.2	4,831	227,464	48.9	430	79,025	31.5
Anatomy	214	7,759	1.7	2	113	0.1	183	7,048	1.5	3	1,782	0.7
Biochemistry	2,158	93,899	21.0	102	11,894	5.3	2,053	95,366	20.5	76	11,119	4.4
Cell biology	263	11,600	2.6	28	2,312	1.0	272	12,436	2.7	32	3,208	1.3
Embryology and development	112	4,132	0.9	4	151	0.1	111	4,639	1.0	3	163	0.1
Genetics	485	23,486	5.2	23	6,478	2.9	536	26,209	5.6	29	11,243	4.5
Immunology	590	27,933	6.2	131	17,097	7.7	608	30,688	6.6	138	13,563	5.4
Microbiology & parasitology	609	27,860	6.2	89	22,050	9.9	594	28,284	6.1	84	31,418	12.5
Reproduction, growth and development	160	6,827	1.5	86	7,195	3.2	163	6,707	1.4	60	5,544	2.2
Structural chemistry of biopolymers	321	16,042	3.6	—	—	—	311	16,087	3.5	5	985	0.4
Clinical medical	1,087	53,564	12.0	118	20,035	9.0	1,102	58,929	12.7	192	26,724	10.7
Hematology	218	10,067	2.2	9	830	0.4	205	10,251	2.2	35	3,063	1.2
Oncology	53	3,056	0.7	16	4,096	1.8	93	4,791	1.0	33	8,229	3.3
Pathology	429	20,586	4.6	29	3,486	1.6	434	23,147	5.0	37	5,475	2.2
Transplantation	101	5,056	1.1	9	1,097	0.5	88	5,045	1.1	8	573	0.2
Other	286	14,799	3.3	55	10,526	4.7	282	15,695	3.4	79	9,384	3.7
Other medical sciences	2,862	118,498	26.5	345	63,778	28.6	2,722	122,635	26.4	359	64,830	25.9
Biology	109	4,594	1.0	1	289	0.1	113	5,195	1.1	1	15	†
Nutrition	195	8,188	1.8	14	2,728	1.2	174	7,972	1.7	11	1,283	0.5
Pharmacology	542	22,543	5.0	187	40,355	18.1	548	25,879	5.6	173	35,063	14.0
Physiology	1,974	81,616	18.2	141	19,806	8.9	1,843	81,785	17.6	170	27,995	11.2
Other	42	1,557	0.3	2	600	0.3	44	1,804	0.4	4	474	0.2

See footnotes at end of table.

(Continued)

NIH RESEARCH PROJECT GRANTS AND RESEARCH AND DEVELOPMENT CONTRACTS, BY SCIENTIFIC DISCIPLINE OR FIELD, FISCAL YEARS 1972 & 1973 (Cont.)^{*}
(Amounts in thousands of dollars)

Scientific discipline or field [†]	Fiscal year 1972						Fiscal year 1973					
	Research project grants			R & D contracts			Research project grants			R & D contracts		
	Number	Amount	Percent	Number	Amount	Percent	Number	Amount	Percent	Number	Amount	Percent
Psychology	203	\$ 7,969	1.8%	8	\$ 573	0.3%	179	5 7,014	1.5%	6	5 280	0.1%
Chemistry	552	23,220	5.2	84	8,980	4.0	541	23,018	5.0	95	10,862	4.3
Physics	5	170	†	2	43	†	8	453	0.1	—	—	—
Environmental health sciences	9	562	0.1	10	871	0.4	8	479	0.1	11	904	0.4
Mathematics	94	5,484	1.2	58	6,258	2.8	98	6,197	1.3	53	9,899	4.0
Bioengineering and instrumentation	178	10,220	2.3	113	14,483	6.5	186	10,694	2.3	113	14,642	5.8
Social sciences	95	4,375	1.0	17	6,370	2.9	94	3,993	0.9	21	1,489	0.6
Other sciences	75	4,137	0.9	256	34,503	15.5	101	3,983	0.9	315	41,852	16.7
Information & communication sciences	61	3,133	0.7	127	14,048	6.3	85	2,967	0.6	165	19,312	7.7
Health sciences & services	3	189	†	7	817	0.4	7	391	0.1	16	2,250	0.9
Animal production & facilities	7	589	0.1	39	6,252	2.8	6	505	0.1	48	7,925	3.2
Biological resources	4	226	0.1	83	13,386	6.0	3	120	†	86	12,365	4.9
BHME	66	6,261		325	45,157		47	2,610		252	25,930	

^{*}Excludes program project and center grants, and general research support programs, none of which are coded for scientific discipline or field. R & D contracts include those for NLM technical development and for BHME training. [†]Broad groupings follow OMB and NSF classifications. † Less than 0.05 percent.

**COUNCIL APPROVED RATES AND AWARD RATES FOR NIH COMPETING RESEARCH GRANT APPLICATIONS, BY NIH COMPONENT,
FISCAL YEARS 1969, 1971 AND 1973**

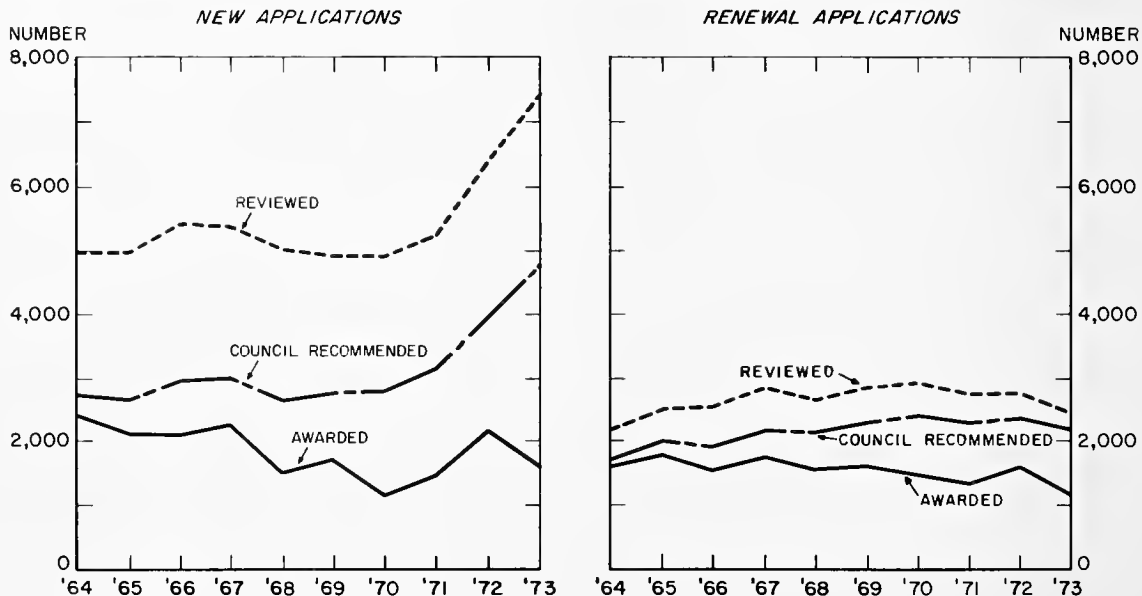
NIH component	Number reviewed by councils*			Percent recommended by councils [†]						Percent of council recommendations awarded					
				Number			Amount [‡]			Number			Amount [‡]		
	1969	1971	1973	1969	1971	1973	1969	1971	1973	1969	1971	1973	1969	1971	1973
Total	8,174	8,214	10,350	64.8%	67.9%	70.3%	52.6%	53.5%	49.8%	65.4%	51.8%	40.9%	67.0%	62.3%	50.7%
I. RD	8,029	8,080	10,225	65.1	68.5	70.7	53.6	53.8	50.0	65.2	51.5	40.7	66.8	62.1	50.6
NIAID	920	838	965	66.5	75.1	78.0	58.5	60.0	61.3	57.8	45.8	37.6	57.8	52.2	42.9
NIAMDD	1,623	1,318	1,310	69.7	72.5	77.9	55.9	55.9	61.5	65.5	46.4	34.3	64.6	48.5	41.6
NCI	829	922	1,736	63.7	68.1	63.9	52.6	54.5	41.3	55.9	68.2	59.6	71.0	77.0	67.4
NIDR	245	265	266	57.6	52.8	58.6	44.8	47.3	41.7	52.5	62.9	47.4	52.5	70.4	45.0
NIEHS	103	133	188	50.5	63.9	62.2	36.3	53.0	58.3	59.6	60.0	38.5	58.4	57.0	49.9
NEI	—	226	380	—	79.6	81.1	—	59.5	68.4	—	65.6	40.3	—	63.4	36.6
NIGMS	1,100	1,127	1,355	71.2	79.6	78.2	58.0	60.5	57.8	56.8	36.1	31.9	57.5	46.4	39.4
NICHD	918	1,032	1,302	54.8	58.1	61.4	44.7	44.8	46.8	50.1	39.7	33.6	58.9	47.2	39.6
NHLI	1,082	1,172	1,382	60.0	65.0	70.1	51.3	48.4	44.1	78.4	62.1	46.7	76.1	73.9	58.7
NINDS	1,080	945	1,120	68.1	61.8	69.0	52.2	47.4	51.5	87.1	59.8	35.1	79.0	61.1	47.2
DRR	129	102	221	71.3	69.6	71.0	60.8	68.1	56.2	71.7	70.4	43.3	75.7	83.0	53.5
II. ME	93	79	40	41.9	30.4	32.5	14.9	24.7	18.4	100.0	91.7	84.6	95.9	97.0	80.1
DAHM	2	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DDH	27	23	0	44.4	26.1	0.0	28.1	20.4	0.0	100.0	83.3	0.0	90.7	85.3	0.0
Su. Dir.	0	0	12	0.0	0.0	8.3	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
DNU	46	38	28	47.8	42.1	42.9	19.0	40.3	39.6	100.0	93.8	91.7	95.3	99.7	95.4
DPHPE	18	18	0	27.8	11.1	0.0	25.1	33.4	0.0	100.0	0.0	0.0	101.9	0.0	0.0
NLM	52	55	85	50.0	43.6	42.4	39.1	30.9	31.5	61.5	70.8	69.4	59.2	68.7	50.8

*Excludes those withdrawn prior to council review and those with budget periods of 24 months or more.

[†]Includes those withdrawn subsequent to council review

[‡]Direct cost only

NIH COMPETING RESEARCH GRANT APPLICATIONS REVIEWED, RECOMMENDED FOR APPROVAL, AND AWARDED, FISCAL YEARS 1964-1973*



*INCLUDES NIEHS AND NLM, AND EXCLUDES NIMH AND BHME, FOR ALL YEARS.

**AWARDS UNDER NIH RESEARCH CAREER AND TRAINING PROGRAMS, AND NUMBER OF TRAINEES UNDER SELECTED PROGRAMS, BY FIELD OF INTEREST,
FISCAL YEAR 1973 (Amounts in thousands of dollars)**

Field of interest	Research career program awards*		Research fellowships*†				Research training grants†				Number of trainees under GRS programs	
			Number			Amount	Number		Number of trainees‡			
	Number	Amount	Post- doctoral	Pre- doctoral	Special				Post- doctoral	Pre- doctoral	Post- doctoral	Pre- doctoral
Total	1,089	\$25,931	783	153	442	\$12,970	1,719	\$104,643	5,494	9,127	78	2,364
I/RD and NLM	1,087	25,888	783	152	305	12,303	1,705	103,774	5,486	9,005**	78††	2,364††
Health-related professions & activities	1,026	24,468	720	103	292	11,123	1,569	94,111	5,337	7,913	74	2,136
General medical & biological sciences	678	15,470	617	97	178	8,310	628	39,771	1,751	6,255	30	843
Anatomy	12	266	23	3	8	314	33	1,654	67	271	2	77
Biochemistry	132	3,272	179	22	48	2,177	60	5,652	131	1,225	4	143
Biophysics	79	1,562	42	2	16	592	23	2,135	69	491	—	6
Microbiology	102	2,388	90	21	17	1,131	116	5,867	275	1,111	6	109
Pathology	37	934	15	—	6	259	85	4,809	331	166	7	71
Pharmacology	34	798	35	10	10	516	59	3,335	182	582	3	73
Physiology	81	1,903	104	10	35	1,560	87	4,961	252	615	5	125
Genetics	95	2,089	45	7	19	666	45	3,310	129	470	—	10
Nutrition	6	135	2	—	1	35	5	275	10	97	—	5
Cell biology	52	1,083	46	12	9	565	7	522	35	172	1	9
Biology	18	386	23	4	2	276	45	2,708	115	378	2	179
Other	30	654	13	6	7	219	63	4,543	155	677	—	36
Clinical medicine	319	8,313	88	—	80	2,143	841	50,051	3,380	924	25	1,094
Internal medicine	237	6,204	30	—	46	833	402	23,205	1,496	355	16	786
Pediatrics	24	641	2	—	6	116	40	2,155	226	24	5	68
Obstetrics gynecology	4	106	—	—	2	23	3	129	29	1	—	21
Radiology	5	131	17	—	10	365	56	4,247	334	66	2	19
Surgery	11	285	8	—	2	149	92	4,562	404	27	—	89
Otorhinolaryngology	3	88	3	—	—	38	45	2,597	233	30	—	3
Ophthalmology	7	187	3	—	11	246	38	2,163	186	11	—	21
Anesthesiology	8	216	1	—	2	52	11	647	71	1	1	13
Neurology	18	401	22	—	1	305	78	4,485	357	4	—	19
Other	2	54	2	—	—	16	76	5,861	44	405	1	55

See footnotes at end of table

(Continued)

AWARDS UNDER NIH RESEARCH CAREER AND TRAINING PROGRAMS, AND NUMBER OF TRAINEES UNDER SELECTED PROGRAMS, BY FIELD OF INTEREST,
FISCAL YEAR 1973 (Cont.) (Amounts in thousands of dollars)

Field of interest	Research career program awards*		Research fellowships*†				Research training grants†				Number of trainees under GRS programs	
			Number			Amount	Number		Amount	Number of trainees‡		
	Number	Amount	Post doctoral	Pre- doctoral	Special					Post doctoral	Pre- doctoral	Post doctoral
Clinical dentistry	5	\$110	6	—	3	\$112	45	\$1,455	60	81	11	163
Other health related fields	24	575	9	6	31	558	55	2,834	146	653	8	36
Nursing	—	—	—	—	—	—	—	—	—	—	—	5
Engineering, health-related	10	236	4	3	18	328	17	1,073	39	325	1	2
Veterinary medicine	—	—	4	—	6	103	10	355	38	2	6	3
Pharmacy	—	—	—	2	—	7	—	—	—	—	—	8
Biostatistics	6	144	1	1	2	52	13	809	19	175	—	—
Epidemiology	8	195	—	—	2	18	12	458	42	79	1	5
Other	—	—	—	—	3	50	3	139	8	72	—	13
Community health fields	—	—	—	—	—	—	—	—	—	—	2	20
Environmental health fields	4	85	—	—	—	5	25	1,990	34	125	—	22
Psychology	21	525	10	—	4	141	47	2,771	74	489	—	37
Behavioral sciences	2	48	1	—	3	58	22	1,622	17	353	—	12
Sociology	1	25	—	—	—	—	11	830	7	156	—	2
Anthropology	1	23	—	—	1	16	5	287	10	154	—	4
Other	—	—	1	—	2	42	6	505	—	43	—	6
Math, physical sciences, engr, other	34	764	52	49	6	975	42	3,284	24	125	2	137
Chemistry	17	373	33	47	3	590	12	593	23	113	2	124
Other fields	17	391	19	2	3	385	30	2,691	1	12	—	13
BHME	2	43	—	1	137	667	14	869	8	122	—	—

*Represents number of awards, not number of persons
FY 1972 funds ||Includes 268 postdoctoral awards

†Includes NINDS research traineeships
Includes 3,962 full time

‡A training grant may support trainees in more than one field of interest
**Includes 6,228 full time ††Includes 16 full-time

§Training in FY 1973 but paid from
‡‡Includes 107 full-time.

**NUMBER OF NIH RESEARCH CAREER PROGRAM AND FELLOWSHIP AWARDS, AND TRAINEES UNDER SELECTED PROGRAMS,
BY NIH COMPONENT, FISCAL YEAR 1973**

NIH component	Grand total	Total			Research career program awards*	Research fellowships*†			Trainees under research training grants†§		Trainees under GRS programs†	
		Post- doctoral	Pre- doctoral	Special	Post- doctoral	Post- doctoral	Pre- doctoral	Special	Post- doctoral	Pre- doctoral	Post- doctoral	Pre- doctoral
Total	19,530	7,444	11,644	442	1,089	783	153	442	5,494	9,127	78	2,364
I/RD	19,183	7,427	11,458	298	1,087	783	152	298	5,479	8,942	78	2,364
NIAID	1,279	521	751	7	81	34	—	7	406	751	—	—
NIAMDD	1,271	1,052	170	49	152	74	—	49	826	170	—	—
NCI	1,491	781	680	30	77	61	—	30	643	680	—	—
NICHD	1,240	442	778	20	109	24	—	20	309	778	—	—
NIDR	559	264	273	22	22	16	—	22	226	273	—	—
NIEHS	352	82	268	2	9	1	—	2	72	268	—	—
NEI	278	237	14	27	19	30	—	27	188	14	—	—
NIGMS	7,258	1,702	5,456	100	371	268	152	100	1,063	5,304	—	—
NHLI	1,637	1,108	494	35	181	36	—	35	891	494	—	—
NINDS	1,245	1,030	210	5	66	138	—	5	826	210	—	—
DRR	2,475	110	2,364	1	—	3	—	1	29	—	78	2,364
FIC	98	98	—	—	—	98	—	—	—	—	—	—
8HME	270	10	123	137	2	—	1	137	8	122	—	—
DDH	33	10	22	1	2	—	1	1	8	21	—	—
DNU	237	—	101	136	—	—	—	136	—	101	—	—
NLM	77	7	63	7	—	—	—	7	7	63	—	—

*Represents number of awards, not number of persons.

†Includes NINDS research traineeships.

‡Training in FY 1973 but paid from FY 1972 funds.

§Includes 10,291 full-time and 4,330 part-time.

||Includes 123 full-time and 2,319 part-time.

NUMBER OF M.D. AND NLM FELLOWSHIPS AND FULL TIME TRAINEES,* BY NIH COMPONENT AND ACADEMIC LEVEL, FISCAL YEARS 1969-1973†

NIH component	1969			1970			1971			1972			1973		
	Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral		Pre-doctoral	Postdoctoral	
		Professional†	Academic‡		Professional†	Academic‡		Professional†	Academic‡		Professional†	Academic‡			
RESEARCH FELLOWSHIPS															
Total	1,585	959	1,303	1,114	720	976	788	675	1,259	350	648	1,273	193	338	709
NIAID	1	63	104	2	54	72	1	30	65	—	34	61	—	11	30
NIAMDD	2	137	167	2	85	114	1	97	124	2	89	124	1	38	84
NCI	1	67	166	1	40	139	—	36	155	—	34	163	—	25	66
NICHD	9	54	110	6	25	55	4	28	68	2	31	56	—	15	29
NIDR	19	54	4	7	49	9	5	51	12	4	45	15	1	28	9
NIEHS	10	1	5	5	5	5	2	3	7	2	2	8	—	1	2
NEI	—	—	—	—	21	17	—	29	36	6	38	63	3	14	40
NIGMS	1,527	81	472	1,079	58	303	765	70	523	328	49	502	183	31	306
NHLI	10	118	92	8	97	75	6	65	86	3	51	91	3	27	41
NINDS	2	231	140	1	160	154	2	150	147	2	142	131	—	73	70
DRR	—	14	1	—	13	—	1	11	—	1	9	2	—	3	1
FIC	4	137	39	3	113	29	1	104	33	—	122	52	—	71	27
NLM	—	2	3	—	—	4	—	1	3	—	2	5	2	1	4
TRAINEES UNDER TRAINING GRANTS															
Total	6,156	3,229	656	6,485	3,152	769	6,132	3,019	894	6,272	3,039	985	6,228	2,966	996
NIAID	469	186	71	480	147	83	444	165	89	489	173	104	487	161	110
NIAMDD	41	627	53	52	607	74	52	612	102	53	613	103	59	600	94
NCI	184	202	73	174	220	77	205	238	108	220	273	102	255	322	127
NICHD	569	151	90	645	123	109	568	111	123	595	101	137	584	102	131
NIDR	142	166	14	135	164	13	132	172	17	139	161	16	121	146	13
NIEHS	286	6	15	305	5	18	275	14	24	269	15	32	205	11	35
NEI	—	—	—	5	150	3	1	109	2	1	68	4	4	66	13
NIGMS	4,052	617	217	4,270	606	254	4,093	558	276	4,142	523	303	4,186	436	297
NHLI	227	562	55	246	519	70	198	509	77	179	577	100	176	586	93
NINDS	99	688	64	98	583	63	97	509	76	90	508	82	96	508	82
DRR	—	19	—	—	22	—	—	22	—	—	25	—	—	23	—
NLM	87	5	4	75	6	5	67	—	—	95	2	2	55	5	1

*In training 100 percent of the time for at least eight months.

†Fellows are funded in the FY shown, the bulk of trainees, in the previous year.

‡Holders of the M.D. or equivalent professional doctorate, including those holding both professional and academic degrees.

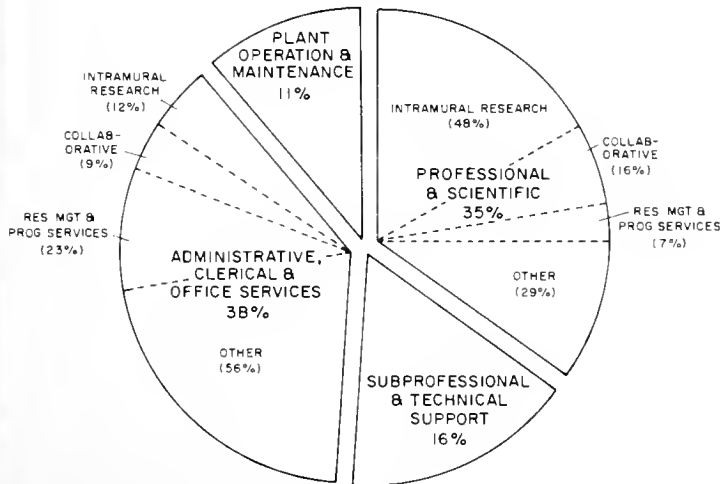
§Holders of the Ph.D. or equivalent academic doctorate.

||Includes NINDS research traineeships.

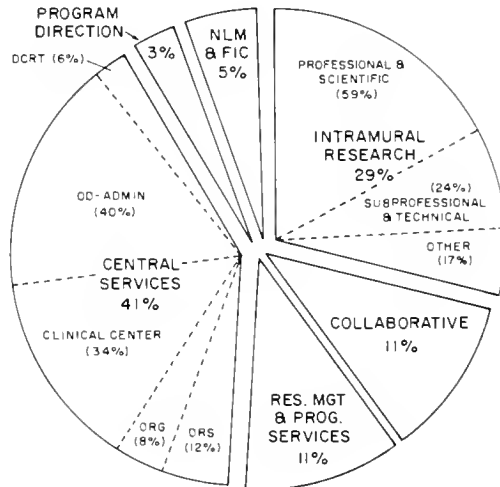
OCCUPATIONAL AND FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL

11,649 SCIENTIFIC AND SUPPORTIVE WORKERS, NOVEMBER 30, 1973

OCCUPATIONAL



FUNCTIONAL



OCCUPATIONAL DISTRIBUTION OF NIH PERSONNEL -- November 30, 1973*

	Total NIH	DDs (NIH & I/RD)	Central services [†]	Institutes & DRR	FIC	NLM
Total	11,649	346	4,831	5,895	62	515
Professional and scientific	4,053	92	905	2,891	16	149
Intramural research	1,953	—	—	1,953	—	—
Collaborative research and support	642	—	—	642	—	—
Research management and program services	296	—	—	296	—	—
Other	1,162	92	905	—	16	149
Subprofessional and technical support	1,862	1	796	989	—	76
Intramural research	789	—	—	789	—	—
Collaborative research and support	184	—	—	184	—	—
Research management and program services	16	—	—	16	—	—
Other	873	1	796	—	—	76
Administrative, clerical, and office services	4,455	252	1,915	1,955	45	288
Intramural research	522	—	—	522	—	—
Collaborative research and support	421	—	—	421	—	—
Research management and program services	1,012	—	—	1,012	—	—
Other	2,500	252	1,915	—	45	288
Plant operation and maintenance	1,279	1	1,215	60	1	2
Intramural research	54	—	—	54	—	—
Collaborative research and support	1	—	—	1	—	—
Research management and program services	5	—	—	5	—	—
Other	1,219	1	1,215	—	1	2

*Includes full time and regular part time civil service employees, commissioned officers, staff fellows, and visiting scientists, at Bethesda and in the field

[†]CC, DCRT, DRG, DRS and DDA.

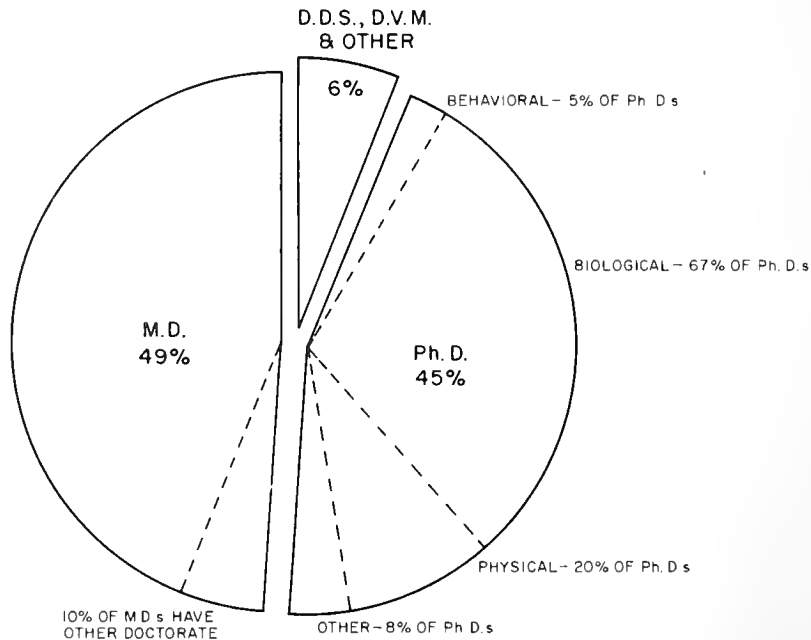
FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL — November 30, 1973*

Total staff 11,649			
Intramural research		3,318	
Professional and scientific		1,953	
Doctorate	1,314		
Nondoctorate	639		
Subprofessional and technical support		789	
Other		576	
Collaborative research and support		1,248	
Professional and scientific		642	
Doctorate	414		
Nondoctorate	228		
Other		606	
Research management and program services		1,329	
Professional and scientific		296	
Doctorate	224		
Nondoctorate	72		
Other		1,033	
Fogarty International Center		62	
Professional and scientific		16	
Other		46	
National Library of Medicine		515	
Professional and scientific		149	
Other		366	
Central services			4,831
Clinical Center			1,642
Professional and scientific†		601	
Other		1,041	
Division of Computer Research & Technology			273
Professional and scientific		62	
Other		211	
Division of Research Grants			407
Professional and scientific		99	
Other		308	
Division of Research Services			560
Professional and scientific		82	
Other		478	
OD — Administration			1,949
Professional and scientific		61	
Other		1,888	
Program direction			346
OD — NIH			124
Professional and scientific		21	
Other		103	
ODs — I/RD			222
Professional and scientific		71	
Other		151	

*Includes full time and regular part time civil service employees, commissioned officers, staff fellows, and visiting scientists, at Bethesda and in the field.

†Includes all nurses

NIH PROFESSIONAL STAFF
2,256 PROFESSIONALS WITH DOCTORATE DEGREES, NOVEMBER 30, 1973



NIH PROFESSIONAL STAFF WITH DOCTORATE DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE *
November 30, 1973

Type of doctorate	Number	Distribution of Ph D 's by discipline			
Total with doctorate	2,256	Biological	682	Behavioral	52
M D	1,106	Biochemistry	225	Psychology	39
(M D 's with other doctorates)	(112)	Microbiology	100	Social sciences	13
Ph D	1,015	Biology	74	Physical	204
Biological	682	Physiology	71	Chemistry	189
Behavioral	52	Pharmacology	49	Physics	15
Physical	204	Zoology	42	Other	77
Other	77	Bacteriology	33	Engineering	22
D V M.	55	Genetics	21	Statistics	15
D D S	46	Biophysics	19	Mathematics	9
D Sc	20	Entomology	17	Pharmacy	4
D M D	2	Anatomy	8	Computer science	2
D P H	2	Speech pathology	5	Education	2
D M Sc.	2	Plant pathology	4	Language	2
Eng.D	2	Biometrics and biostatistics	4	Public health	2
Other	6	Plant physiology	2	Nursing	1
		Radiobiology	2	Philosophy	1
		Botany	2	Other	17
		Husbandry	2		
		Cytology	1		
		Embryology	1		

* Includes full time and regular part time civil service employees, commissioned officers, staff fellows, and visiting scientists, at Bethesda and in the field

CHRONOLOGY OF IMPORTANT EVENTS IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887** Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891** Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902** Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912** Name of Public Health & Marine Hospital changed to Public Health Service.
- 1930** Hygienic Laboratory becomes National Institute of Health under the Ransdell Act, 5/26.
- 1937** Congress authorizes National Cancer Institute, 8/15. First research grants.
- 1938** National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).
- 1944** Public Health Service Act, giving general research authority, 7/1.
- 1945** Research grants extended, with central NIH responsibility.
- 1946** Division of Research Grants established to review and evaluate applications for NIH grants to non-Federal institutions and scientists.

- 1947 First training grants (NCI). DRG starts research fellowship program.
- 1948 National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute and National Institute of Dental Research. NIH becomes National *Institutes* of Health, 6/16.
- 1949 Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950 "Omnibus Medical Research Act." 8/15. National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.
- 1953 Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955 National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services created.
- 1956 Health Research Facilities Act, authorizing program of matching grants for research construction in non-Federal institutions.
- 1958 Division of General Medical Sciences created.

- 1960** Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.
- 1962** Division of Research Facilities & Resources formed. National Library of Medicine, constituent of PHS since 1956, moves to NIH reservation.
- 1963** Two Institutes (authorized in 1962) established — National Institute of General Medical Sciences (superseding DGMS) and National Institute of Child Health & Human Development.
- 1964** Division of Computer Research and Technology established.
- 1965** Division of Regional Medical Programs created to administer the "Heart Disease, Cancer, and Stroke Amendments of 1965."
- 1966** Division of Environmental Health Sciences established.
- 1967** National Institute of Mental Health becomes separate bureau of PHS, 1/1.
- 1968** John E. Fogarty International Center for Advanced Study in the Health Sciences established.

PHS reorganized under Assistant Secretary for Health & Scientific Affairs, DHEW. Bureau of Health Manpower, formed in PHS the previous year, and National Library of Medicine become constituents of NIH, 4/1. DRMP transferred to new Health Services & Mental Health Administration, PHS.

Lister Hill National Center for Biomedical Communications established at NLM. National Eye Institute authorized and established. NINDB becomes National Institute of Neurological Diseases & Stroke.

BHM becomes Bureau of Health Professions Education & Manpower Training and acquires DRFR.

- 1969** DEHS becomes National Institute of Environmental Health Sciences. National Heart Institute renamed National Heart & Lung Institute.
- 1970** BEMT becomes Bureau of Health Manpower Education. Its Division of Research Resources transferred to I/RD group, 9/18.
- 1971** National Cancer Program established, 12/23. Sickle Cell Disease Program initiated in NHLI.
- 1972** NIAMD becomes National Institute of Arthritis, Metabolism and Digestive Diseases, 5/19. Division of Biologics Standards transferred to Food & Drug Administration, PHS, 7/1. NCI and NHLI gain bureau status within NIH, 7/27.
- 1973** PHS reorganization, 7/1, returns NIMH to NIH, decentralizes BHME, and establishes new agencies — Health Resources Administration, Health Services Administration, and Center for Disease Control. NIMH transferred, 9/25, to another new agency in DHEW, the Alcohol, Drug Abuse, and Mental Health Administration. See current organization chart, page i.

ABBREVIATIONS

AEC—Atomic Energy Commission

ADAMHA—Alcohol, Drug Abuse, & Mental Health
Administration

A & S—Arts & Sciences

BEMT—Bureau of Health Professions Education & Man-
power Training

BHM—Bureau of Health Manpower

BHME—Bureau of Health Manpower Education

Bu. Dir.—Bureau Director

CC—Clinical Center

CDC—Center for Disease Control

DAHM—Division of Allied Health Manpower

DBS—Division of Biologics Standards

DCRT—Division of Computer Research & Technology

DDH—Division of Dental Health

DEHS—Division of Environmental Health Sciences

DGMS—Division of General Medical Sciences

DHEW—Department of Health, Education, & Welfare

DMI—Division of Manpower Intelligence

DN, DNU—Division of Nursing

DoD—Department of Defense

DPHPE—Division of Physician & Health Professions
Education

DRFR—Division of Research Facilities & Resources

DRG—Division of Research Grants

DRMP—Division of Regional Medical Programs

DRR—Division of Research Resources

DRS—Division of Research Services

FDA—Food & Drug Administration

FIC—John E. Fogarty International Center for Advanced
Study in the Health Sciences

FY—Fiscal year (July 1 — June 30)

GPO—Government Printing Office

GRS—General Research Support program

HRA—Health Resources Administration

HSA—Health Services Administration

HSMHA—Health Services & Mental Health Administration

I/RD—Institutes & Research Divisions

NA—Not available

NASA—National Aeronautics & Space Administration

NCI—National Cancer Institute

NEI—National Eye Institute

NHLI—National Heart & Lung Institute

NIAID—National Institute of Allergy & Infectious
Diseases

NIAMD—National Institute of Arthritis & Metabolic
Diseases

NIAMDD—National Institute of Arthritis, Metabolism &
Digestive Diseases

NICHD—National Institute of Child Health & Human
Development

NIDR—National Institute of Dental Research

NIEHS—National Institute of Environmental Health
Sciences

NIGMS—National Institute of General Medical Sciences

NIH—National Institute of Health; National *Institutes*
of Health

NIMH—National Institute of Mental Health

NINDS—National Institute of Neurological Diseases &
Stroke

NLM—National Library of Medicine

NSF—National Science Foundation

OD—Office of the Director

OD-ADMIN, ODA—Offices of the Associate Director for
Administration

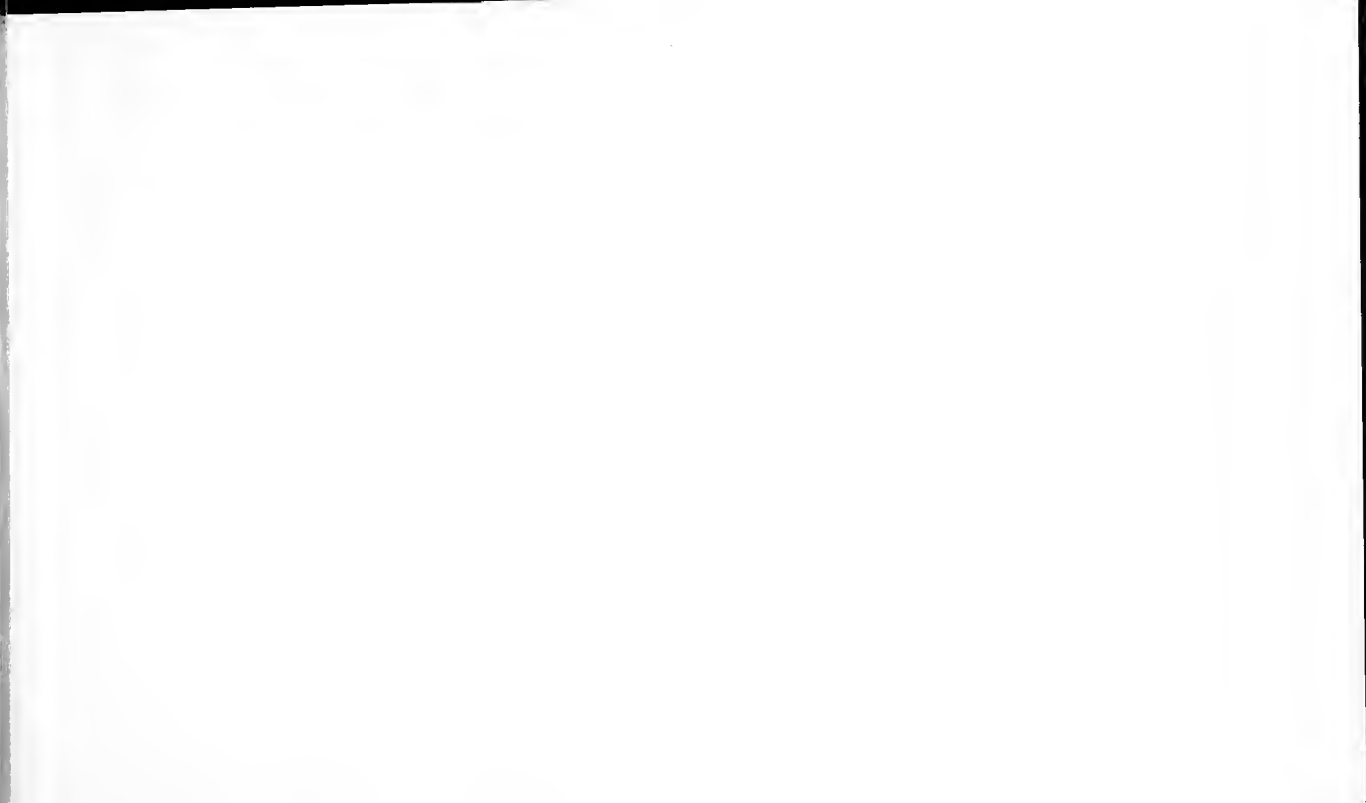
OLA—Office of Legislative Analysis

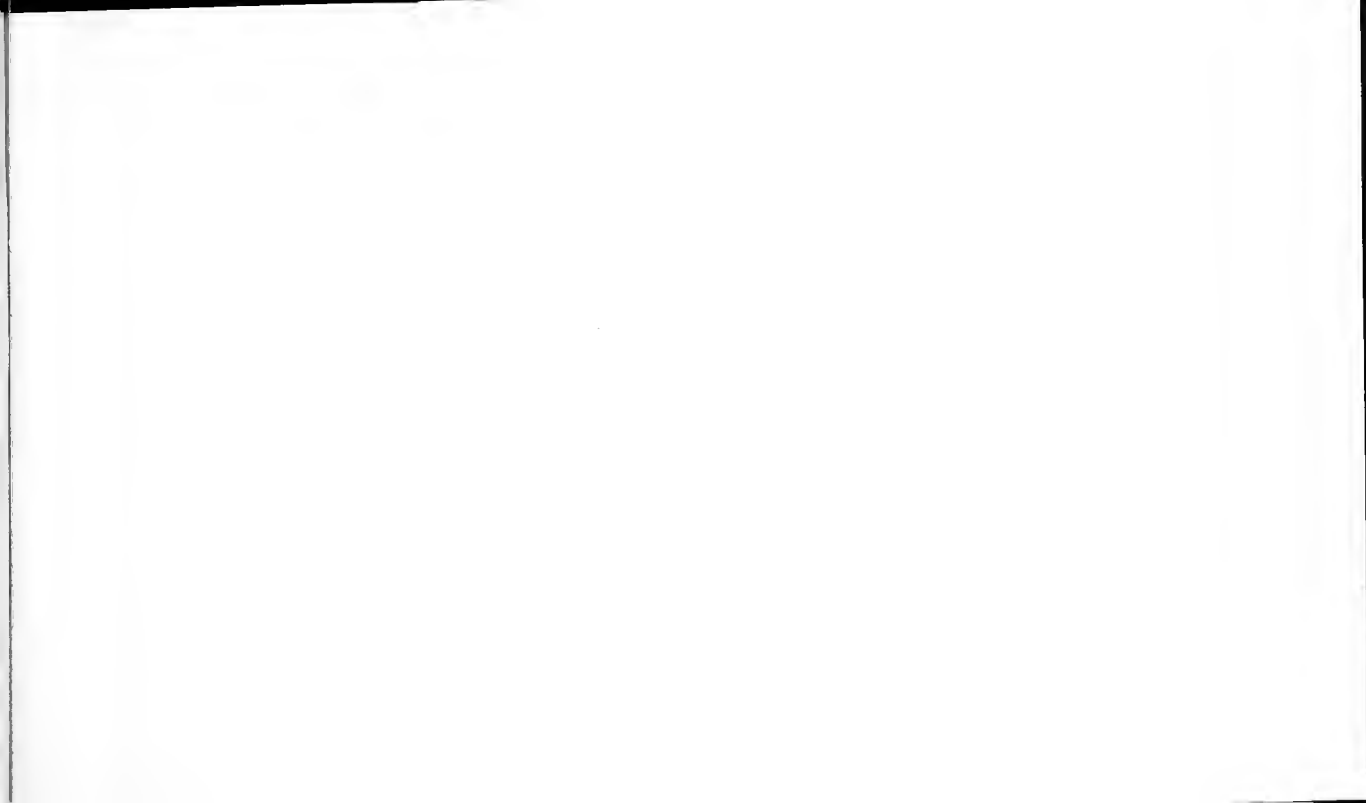
OMB—Office of Management & Budget

PHS—Public Health Service

PTO—Programs transferred out of NIH

R & D—Research & development









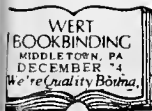




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